



Permit: 92-33T

Name: Wilders Grove Transfer Facility

County: Wake

Shipped Date:

Box: SW-11-054

Document Type: Other (O)

Document Date: 5/29/2008

Division: Waste Management (WM)

Sub-Division: Solid Waste (SW)

Document Category: Facility (F)

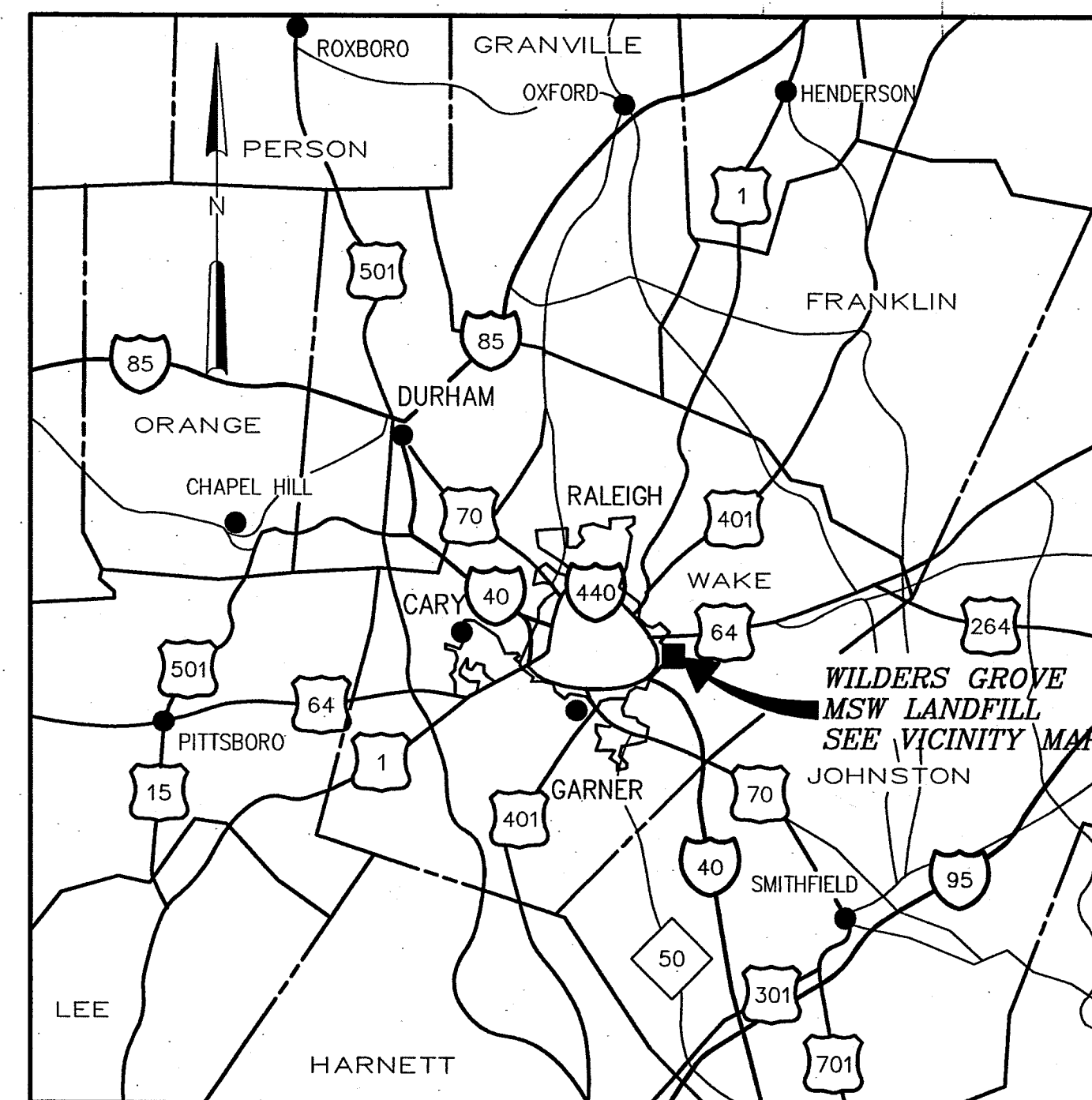
Document Group: Authorization or Permit (P)

Description: Map: . Maps in Roll: 23

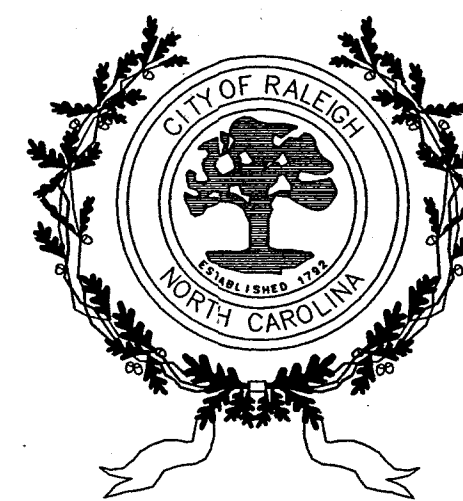
# CITY OF RALEIGH DEPARTMENT OF SOLID WASTE SERVICES RALEIGH, NORTH CAROLINA

## WILDERS GROVE SOLID WASTE TRANSFER FACILITY RECORD DRAWINGS

APPROVED  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION  
DATE 5-29-08 BY *VL*  
PTO 92-33T  
ATTACH 1, PART II, DOC 7

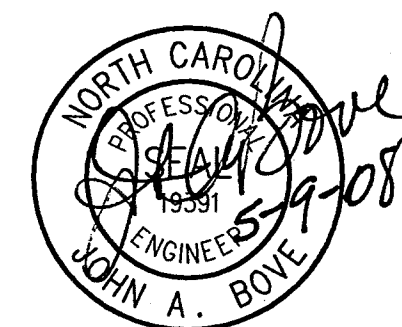


LOCATION MAP

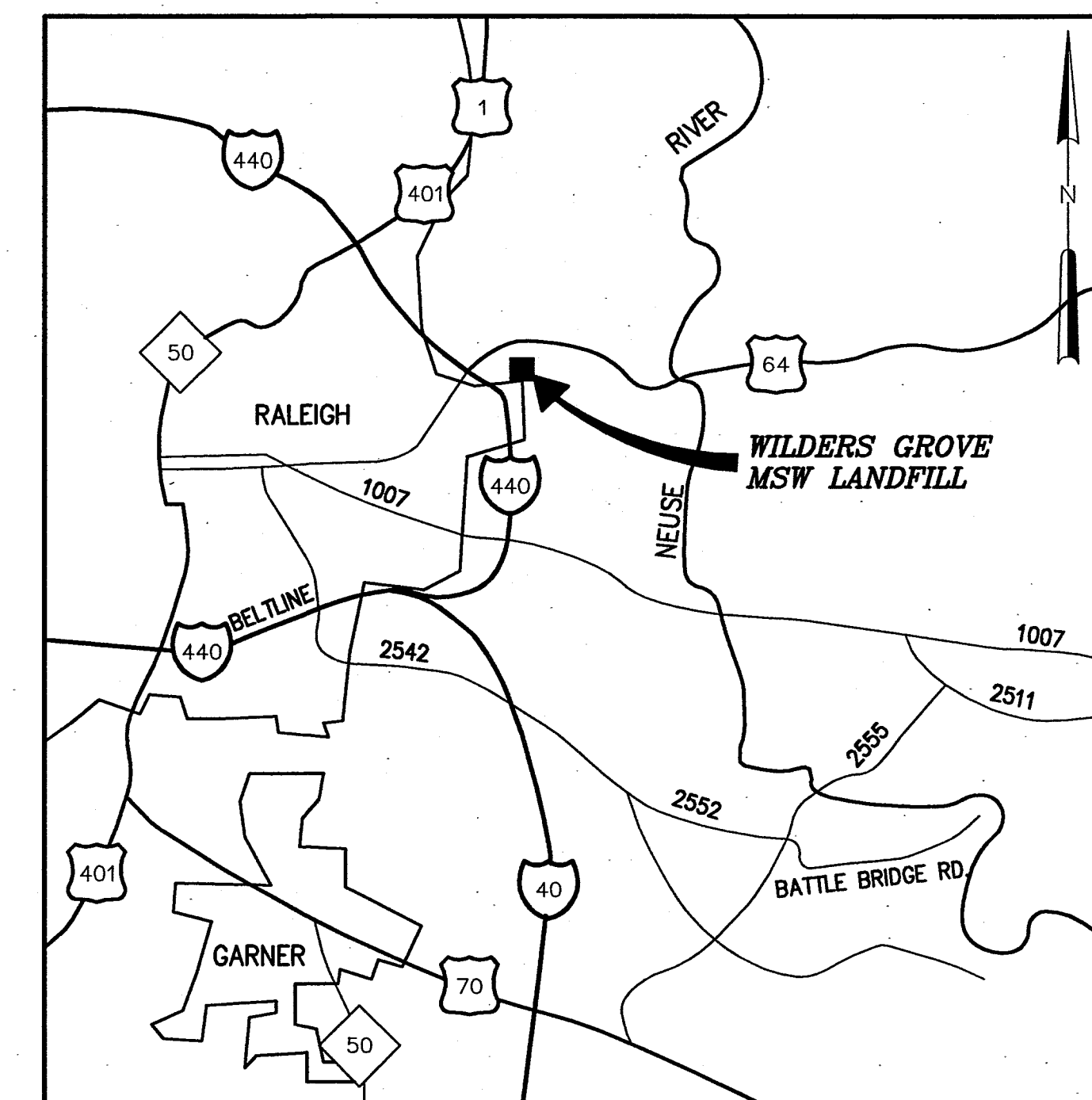


MAY 2008

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY ROBERT S.  
DIFIORE, SEAL NUMBER 9463



**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607



VICINITY MAP

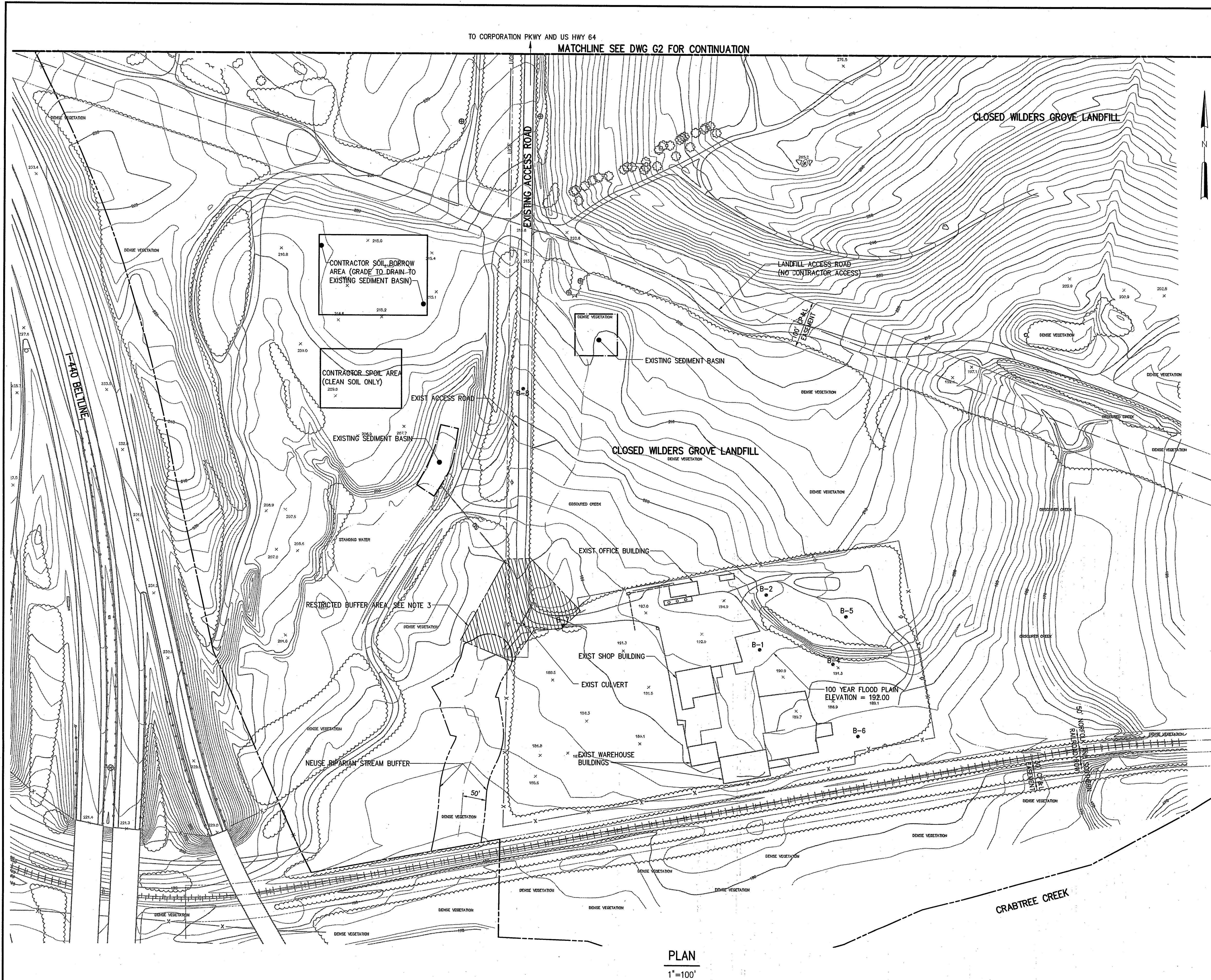


RECORD DRAWING









PLAN  
1"=100'

- NOTES:
- EXISTING GROUND SURFACE ELEVATIONS FROM AERIAL TOPOGRAPHIC SURVEY CONDUCTED BY CARTOGRAPHIC AERIAL MAPPING, INC. ENTITLED "WILDERS GROVE LANDFILL" AND DATED OCTOBER 29, 2006.
  - CONTRACTOR SHALL NOT ENTER UPON OR DISTURB CLOSED LANDFILL DISPOSAL AREAS. CONTRACTOR SHALL CONDUCT CLEARING OR EARTHWORK OPERATIONS ONLY IN DESIGNATED AREAS.
  - BUFFER RESTRICTION** - CONTRACTOR IS RESTRICTED FROM CLEARING, EXCAVATION OR OTHERWISE DISTURBING AREA INDICED UNTIL OWNER RECEIVES JURISDICTIONAL AREA PERMIT FROM U.S. ARMY CORPS OF ENGINEERS AND THE NC DENR DIVISION OF WATER QUALITY. SUCH PERMITS ARE ANTICIPATED ON OR BEFORE JUNE 15, 2007. THERE ARE NO RESTRICTIONS ON USE OF EXISTING ACCESS ROAD IN THIS AREA.

LEGEND

B-6  
DENOTES TEST BORING LOCATION AND IDENTIFYING NUMBER

NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWINGS	5/08	JAB
4	CONSTRUCTION	3/07	JAB
3	LAND DISTURBANCE SUBMITTAL	2/07	JAB
2	PUBLIC WORKS SUBMITTAL	2/07	JAB
1	STATE APPROVAL	01/07	JAB

DESIGNED JAB  
DRAWN PWS  
CHECKED JAB  
PROJ. ENGR. JAB  
APPROVED

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIPIORE, SEAL NUMBER 9463  
  
THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY JOHN A. BOVE, SEAL NUMBER 19391

RECORD DRAWING  
THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER

**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

**CITY OF RALEIGH**  
DEPARTMENT OF SOLID WASTE SERVICES  
**WILDERS GROVE SOLID WASTE TRANSFER FACILITY**  
820 CORPORATION PARKWAY, RALEIGH, NC

SITE  
GENERAL  
EXISTING CONDITIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

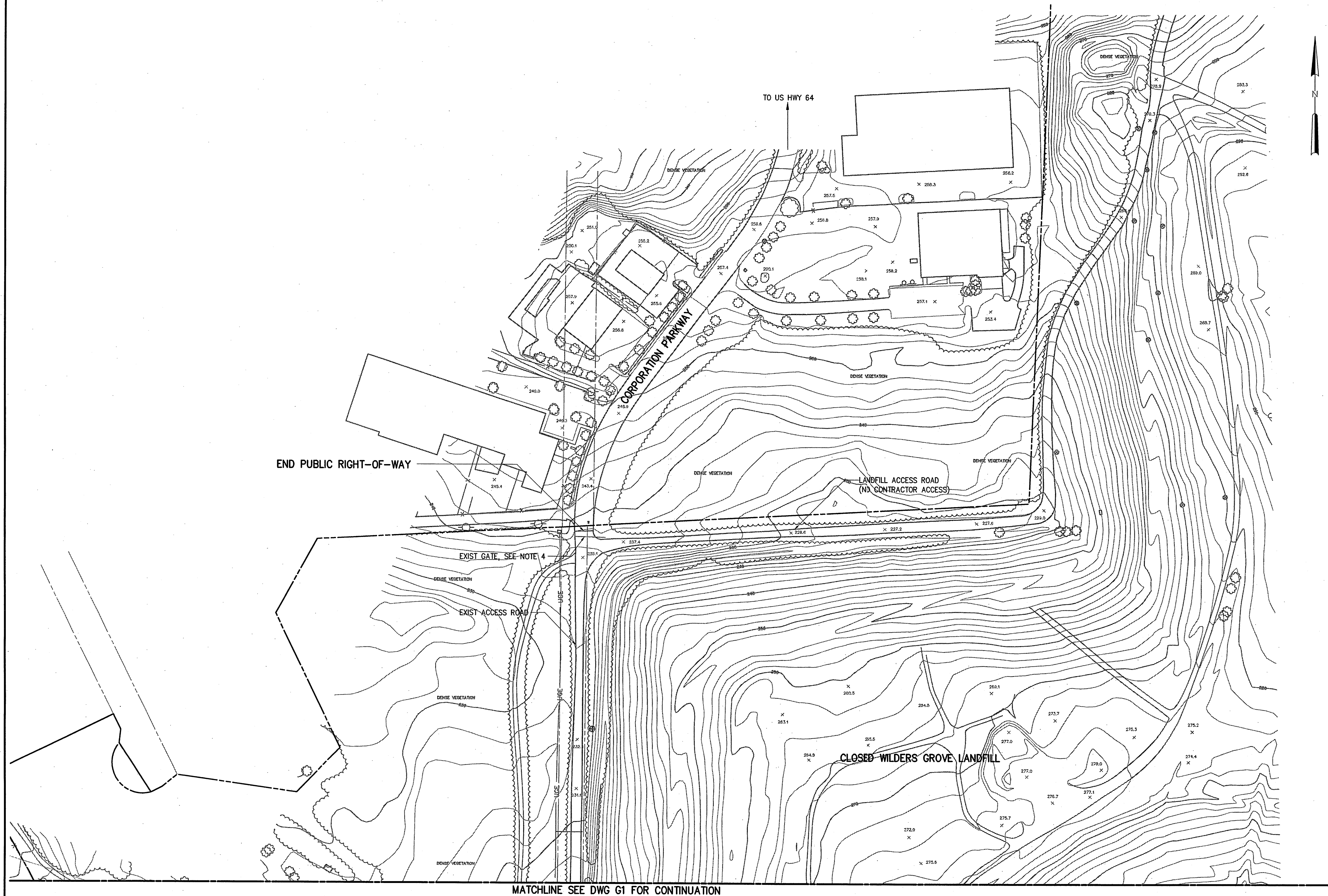
DATE JANUARY 2007  
H & S JOB NUMBER 30579  
CONTRACT NUMBER  
DRAWING NUMBER G1  
H & S FLAT FILE NO.

RECORD DRAWING



## NOTES:

1. EXISTING GROUND SURFACE ELEVATIONS FROM AERIAL TOPOGRAPHIC SURVEY CONDUCTED BY CARTOGRAPHIC AERIAL MAPPING, INC. ENTITLED "WILDERS GROVE LANDFILL" AND DATED OCTOBER 29, 2006.
2. FLOOD PLAIN ELEVATIONS FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE STUDY (FIS) PROFILES, WAKE COUNTY, NC, CRABTREE CREEK, BASIN 18, STREAM 9.  
100 YEAR FLOOD PLAIN ELEVATION = 192.00  
10 YEAR FLOOD PLAIN ELEVATION = 183.00
3. CONTRACTOR SHALL NOT ENTER UPON OR DISTURB CLOSED LANDFILL DISPOSAL AREAS. CONTRACTOR SHALL CONDUCT CLEARING OR EARTHWORK OPERATIONS ONLY IN DESIGNATED AREAS.
4. EXISTING GATE TO REMAIN CLOSED AT ALL TIMES WHEN CONTRACTOR IS NOT ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GATE AND LOCK.



MATCHLINE SEE DWG G1 FOR CONTINUATION

PLAN

1"=100'

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWINGS	5/08	JAB	
4	CONSTRUCTION	3/07	JAB	
3	LAND DISTURBANCE SUBMITTAL	2/07	JAB	
2	PUBLIC WORKS SUBMITTAL	2/07	JAB	
1	STATE APPROVAL	01/07	JAB	

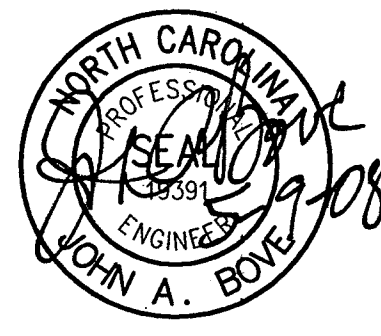
DESIGNED JAB  
DRAWN PWS  
CHECKED JAB  
PROJ. ENGR. JAB

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY ROBERT S.  
DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY JOHN A.  
BOVE, SEAL NUMBER 19391

## RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED  
TO REFLECT FIELD CHANGES  
REPORTED BY THE CONTRACTOR OR  
ANOTHER PARTY, BUT NOT VERIFIED  
BY THE CERTIFYING ENGINEER



**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

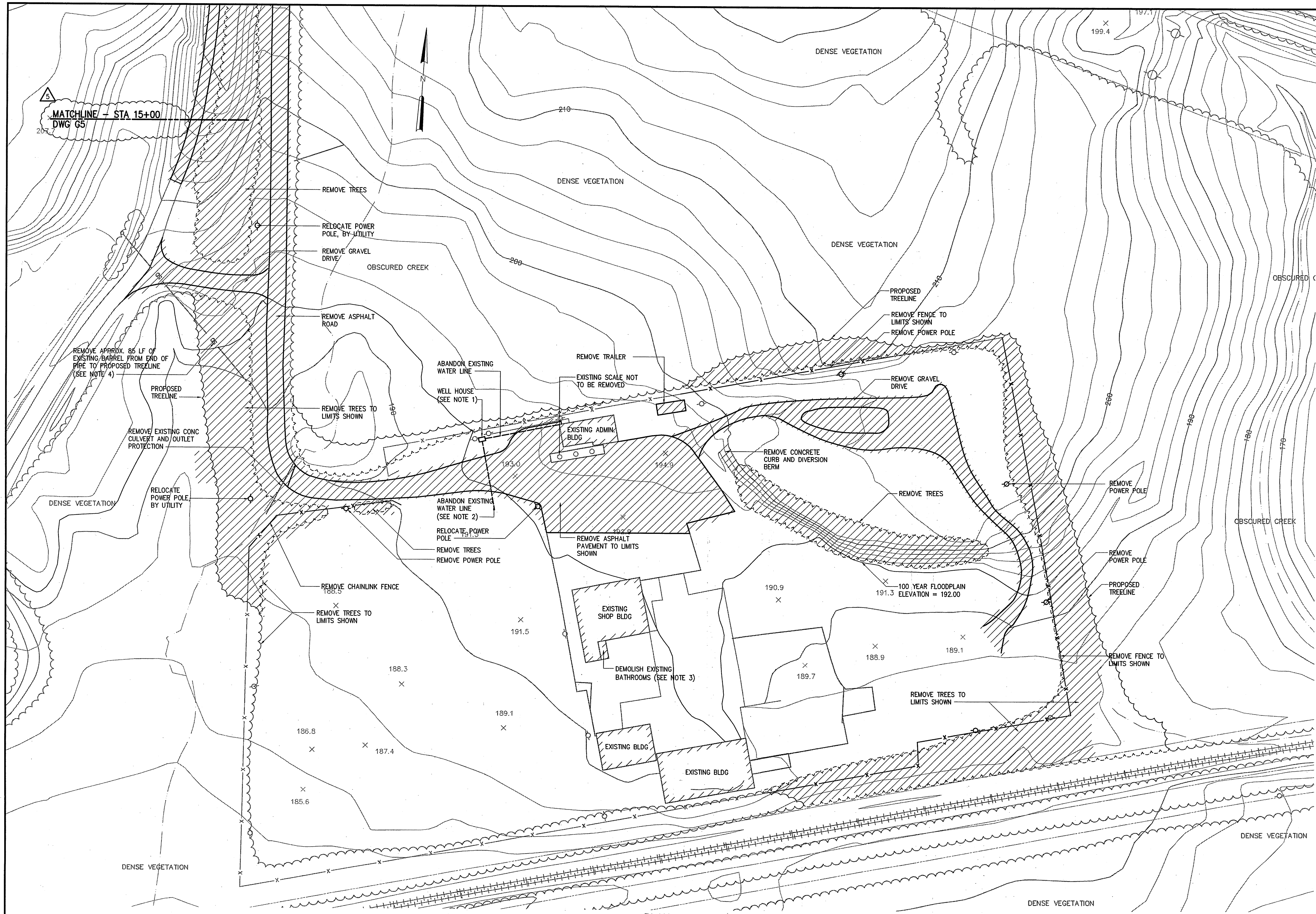
CITY OF RALEIGH  
DEPARTMENT OF SOLID WASTE SERVICES  
WILDERS GROVE SOLID WASTE  
TRANSFER FACILITY  
820 CORPORATION PARKWAY, RALEIGH, NC

SITE  
GENERAL  
EXISTING CONDITIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE JANUARY 2007 H & S JOB NUMBER 30579 CONTRACT NUMBER DRAWING NUMBER G2 H&S FLAT FILE NO.
--	---

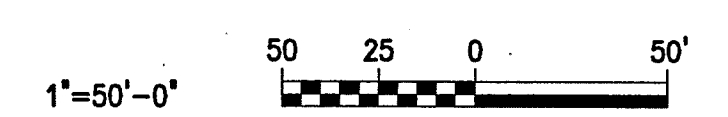
RECORD DRAWING





- NOTES:**
- CONTRACTOR TO DEMOLISH EXISTING WELL HOUSE, RETRIEVE WELL PUMP AND OTHER MECHANICAL COMPONENTS OF WATER SUPPLY. WELL IS TO BE ABANDONED IN ACCORDANCE WITH NORTH CAROLINA REGULATIONS. WELL ABANDONMENT SHALL INCLUDE, AT A MINIMUM, FILLING THE ENTIRE AREA INSIDE THE CASING WITH CEMENT GROUT OR A GROUT MIXTURE ACCEPTABLE UNDER APPLICABLE REGULATIONS AND TO THE ENGINEER.
  - REMOVE EXISTING WATER LINE A DISTANCE OF 5 FEET ON EACH SIDE OF PAVEMENT AND PLUG REMAINING SEGMENTS.
  - DEMOLITION ACTIVITIES FOR SHOP BUILDING:  
NOTE THAT FLOOR TILES AND MASTIC IN EXISTING BATHROOMS HAVE BEEN IDENTIFIED AS ASBESTOS CONTAINING MATERIALS (ACM). CONTRACTOR SHALL MINIMIZE DISTURBANCE TO FLOORING DURING DEMOLITION ACTIVITIES. SEE ACM REPORT IN APPENDIX B OF THE SPECIFICATIONS.  
A) REMOVE ALL PIPING & FIXTURES FROM EXISTING BATHROOMS.  
B) PLUG WATER AND SANITARY LINES BEHIND WALLS & FLOOR.  
C) REPAIR WALLS AND FLOOR.
  - REMOVE FLAP VALVE AND STORE ON SITE FOR OWNER'S USE. DITCH FROM NEW END OF BARREL TO DRAIN AS REQUIRED.

PLAN  
1"=50'

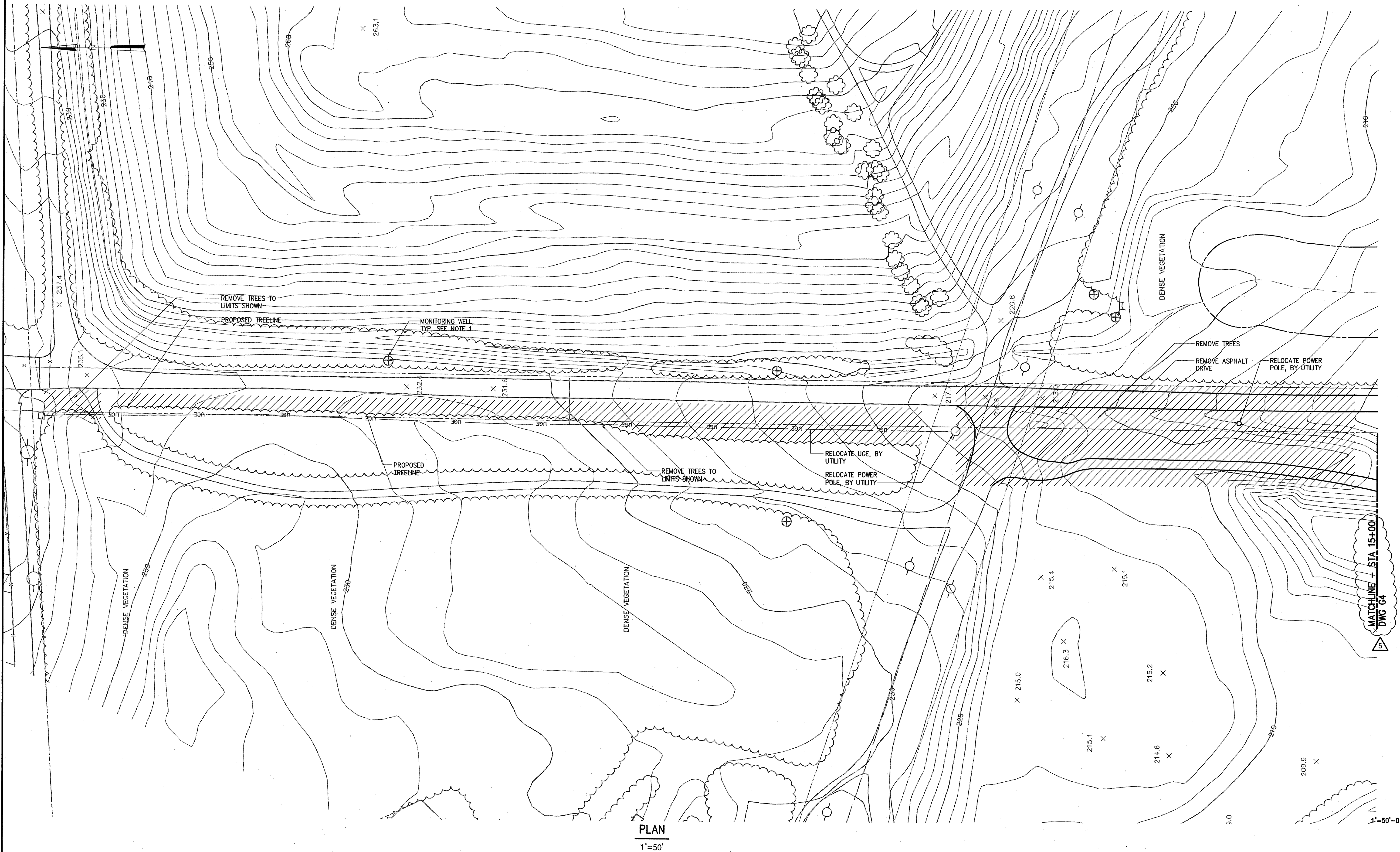


6 RECORD DRAWINGS 5/08 JAB			DESIGNED JAB	<p>THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NUMBER 9463</p> <p>THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY JOHN A. BOVE, SEAL NUMBER 19391</p>	<p><b>RECORD DRAWING</b></p> <p>THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER</p>		CITY OF RALEIGH		<p><b>SITE GENERAL DEMOLITION PLAN</b></p>	<p>THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.</p>	DATE JANUARY 2007	
5 ADDENDUM NO.1 6/07 JAB			DRAWN PWS				H & S JOB NUMBER 30579					
4 CONSTRUCTION 3/07 JAB			CHECKED JAB				CONTRACT NUMBER					
3 LAND DISTURBANCE SUBMITTAL 2/07 JAB			PROJ. ENGR. JAB				DRAWING NUMBER G4					
2 SITE PLAN SUBMITTAL 2/07 JAB							H & S FLAT FILE NO.					
1 STATE APPROVAL 01/07 JAB												
NO. ISSUED FOR			DATE BY APPROVED									

20080506 2:20P PL 30579R (GEN) 04/06 BY FIELDSEK Last Saved By: parallel

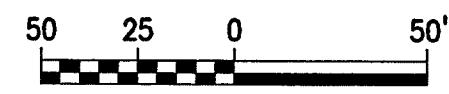


NOTES:  
1 CONTRACTOR TO PROTECT ALL EXISTING MONITORING WELLS FROM DAMAGE.



PLAN  
1"=50'

MATCHLINE - STA 15+00  
DWG G4



NO.	ISSUED FOR	DATE	BY	APPROVED
6	RECORD DRAWINGS	5/08	JAB	
5	ADDENDUM NO.1	6/07	JAB	
4	CONSTRUCTION	3/07	JAB	
3	LAND DISTURBANCE SUBMITTAL	2/07	JAB	
2	SITE PLAN SUBMITTAL	2/07	JAB	
1	STATE APPROVAL	01/07	JAB	

DESIGNED	JAB
DRAWN	PWS
CHECKED	<i>[Signature]</i>
PROJ. ENGR.	JAB

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY JOHN A. BOVE, SEAL NUMBER 19391

**RECORD DRAWING**

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER

*[Seal: JOHN A. BOVE, ENGINEER, 19391]*

**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

**CITY OF RALEIGH**  
DEPARTMENT OF SOLID WASTE SERVICES

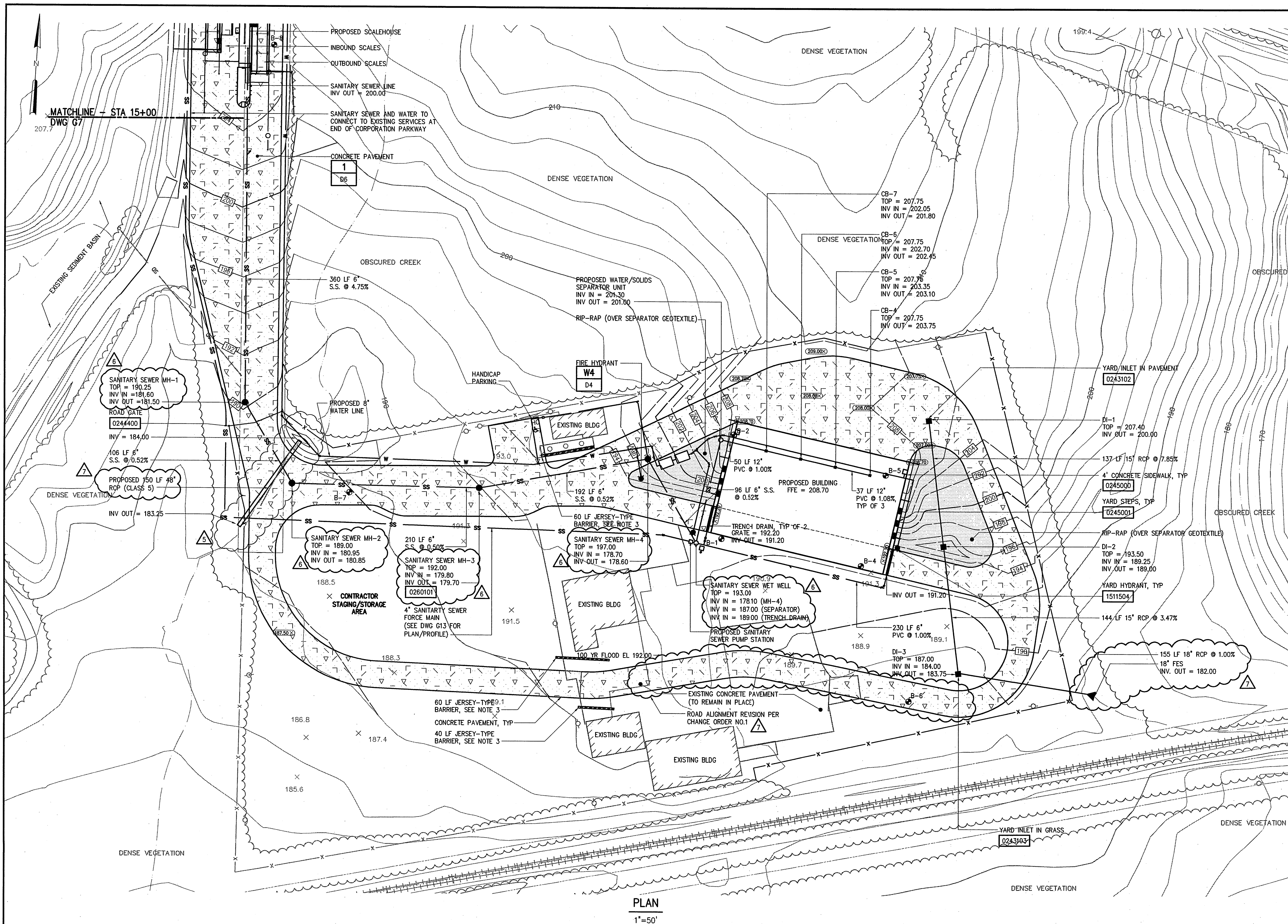
**WILDERS GROVE SOLID WASTE TRANSFER FACILITY**  
820 CORPORATION PARKWAY, RALEIGH, NC

**ENTRANCE FACILITY AND ACCESS ROAD**  
**GENERAL**  
**DEMOLITION PLAN**

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE JANUARY 2007  
H & S JOB NUMBER 30579  
CONTRACT NUMBER  
DRAWING NUMBER G5  
H&S FLAT FILE NO.





- NOTES:**
- EXISTING GROUND SURFACE ELEVATIONS FROM AERIAL TOPOGRAPHIC SURVEY CONDUCTED BY CARTOGRAPHIC AERIAL MAPPING, INC. ENTITLED "WILDERS GROVE LANDFILL" AND DATED OCTOBER 29, 2006.
  - CONTRACTOR SHALL NOT ENTER UPON OR DISTURB CLOSED LANDFILL DISPOSAL AREAS. CONTRACTOR SHALL CONDUCT CLEARING OR EARTHWORK OPERATIONS ONLY IN DESIGNATED AREAS.
  - CONTRACTOR TO PROVIDE NEW, FIRST QUALITY CONCRETE JERSEY-TYPE BARRIERS (PER NCDOT SPECIFICATIONS) AT LOCATIONS SHOWN. INSTALL BARRIERS AT THE START OF WORK AND LEAVE IN PLACE. COORDINATE EXACT LOCATIONS WITH THE ENGINEER AND OWNER.
  - FOR EROSION CONTROL MEASURES, SEE DRAWING EC2.
  - RUN DOWNSPOUTS ON EAST SIDE OF BUILDING BENEATH CONCRETE SIDEWALK AND EXTEND PIPE TO DRAIN EACH DOWNSPOUT TO DI #2. RUN DOWNSPOUTS ON WEST SIDE OF BUILDING BENEATH CONCRETE SIDEWALK AND EXTEND PIPE TO CONDUCT FLOW TO WEST AWAY FROM THE TRENCH DRAIN.

TOTAL DISTURBED AREA: 13.5 ACRES

**LEGEND**

B-6  

 DENOTES TEST BORING LOCATION AND IDENTIFYING NUMBER

DENOTES AREA TO BE COVERED BY CLASS B RIP RAP OVERLYING SEPARATOR GEOTEXTILE.



NO.	ISSUED FOR	DATE	BY	APPROVED
7	RECORD DRAWINGS	5/08	JAB	
6	RFI 14 - INVERT MODIFICATION	8/07	MDB	
5	DESIGN MODIFICATION	6/07	JAB	
4	CONSTRUCTION	3/07	JAB	
3	LAND DISTURBANCE SUBMITTAL	2/07	JAB	
2	PUBLIC WORKS SUBMITTAL	2/07	JAB	
1	STATE APPROVAL	01/07	JAB	
	ISSUED FOR	DATE	BY	APPROVED

DESIGNED: JAB  
 DRAWN: MDB  
 CHECKED: JAB  
 PROJ. ENGR. JAB

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY JOHN A. BOVE, SEAL NUMBER 19391

**RECORD DRAWING**

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER

**HAZEN AND SAWYER**  
 Environmental Engineers & Scientists  
 4011 WestChase Blvd, Raleigh, North Carolina 27607

**CITY OF RALEIGH**  
 DEPARTMENT OF SOLID WASTE SERVICES  
**WILDERS GROVE SOLID WASTE TRANSFER FACILITY**  
 820 CORPORATION PARKWAY, RALEIGH, NC

**SITE GENERAL**  
**GRADING AND DRAINAGE PLAN**

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

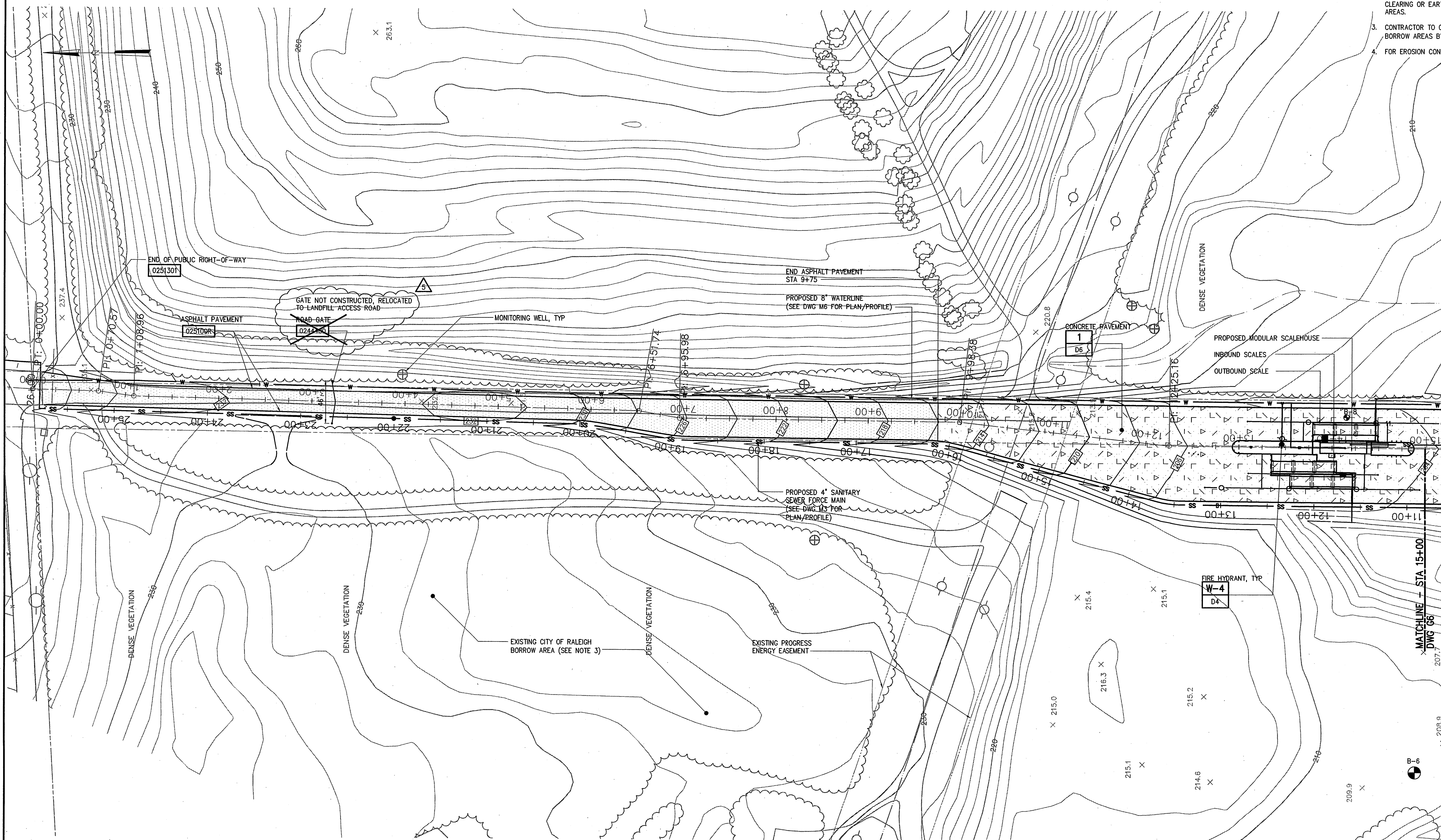
DATE: JANUARY 2007  
 H & S JOB NUMBER: 30579  
 CONTRACT NUMBER: 0243102  
 DRAWING NUMBER: G6  
 H&S FLAT FILE NO.

RECORD DRAWING



## NOTES:

1. EXISTING GROUND SURFACE ELEVATIONS FROM AERIAL TOPOGRAPHIC SURVEY CONDUCTED BY CARTOGRAPHIC AERIAL MAPPING, INC. ENTITLED "WILDERS GROVE LANDFILL" AND DATED OCTOBER 29, 2006.
2. CONTRACTOR SHALL NOT ENTER UPON OR DISTURB CLOSED LANDFILL DISPOSAL AREAS. CONTRACTOR SHALL CONDUCT CLEARING OR EARTHWORK OPERATIONS ONLY IN DESIGNATED AREAS.
3. CONTRACTOR TO COORDINATE ACTIVITIES TO ALLOW ACCESS TO BORROW AREAS BY OWNER OR OWNER'S CONTRACTORS.
4. FOR EROSION CONTROL MEASURES, SEE DRAWING EC1.



PLAN

1"=50'


## LEGEND

DENOTES TEST BORING LOCATION AND IDENTIFYING NUMBER



50 25 0 50'

1"=50'-0"

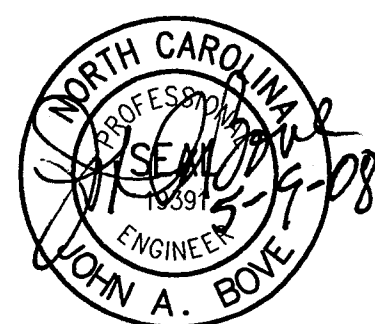
				DESIGNED	JAB
				DRAWN	PWS
5	RECORD DRAWINGS	5/08	JAB	CHECKED	
4	CONSTRUCTION	3/07	JAB	PROJ. ENGR.	JAB
3	LAND DISTURBANCE SUBMITTAL	2/07	JAB		
2	PUBLIC WORKS SUBMITTAL	2/07	JAB		
1	STATE APPROVAL	01/07	JAB		
NO.	ISSUED FOR	DATE	BY	APPROVED	

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY ROBERT S.  
DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY JOHN A.  
BOVE, SEAL NUMBER 19391

## RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED  
TO REFLECT FIELD CHANGES  
REPORTED BY THE CONTRACTOR OR  
ANOTHER PARTY, BUT NOT VERIFIED  
BY THE CERTIFYING ENGINEER



**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

CITY OF RALEIGH  
DEPARTMENT OF SOLID WASTE SERVICES  
WILDERS GROVE SOLID WASTE  
TRANSFER FACILITY  
820 CORPORATION PARKWAY, RALEIGH, NC

ACCESS ROAD  
GENERAL  
GRADING AND DRAINAGE PLAN

THE SCALE BAR  
SHOWN BELOW  
MEASURES ONE  
INCH LONG ON  
THE ORIGINAL  
DRAWING.

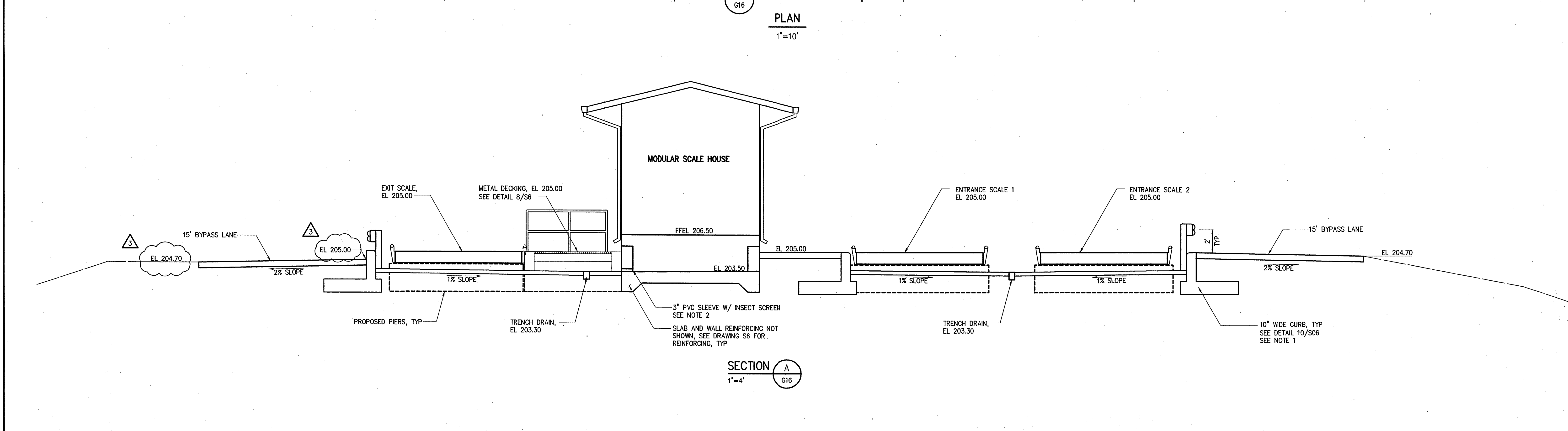
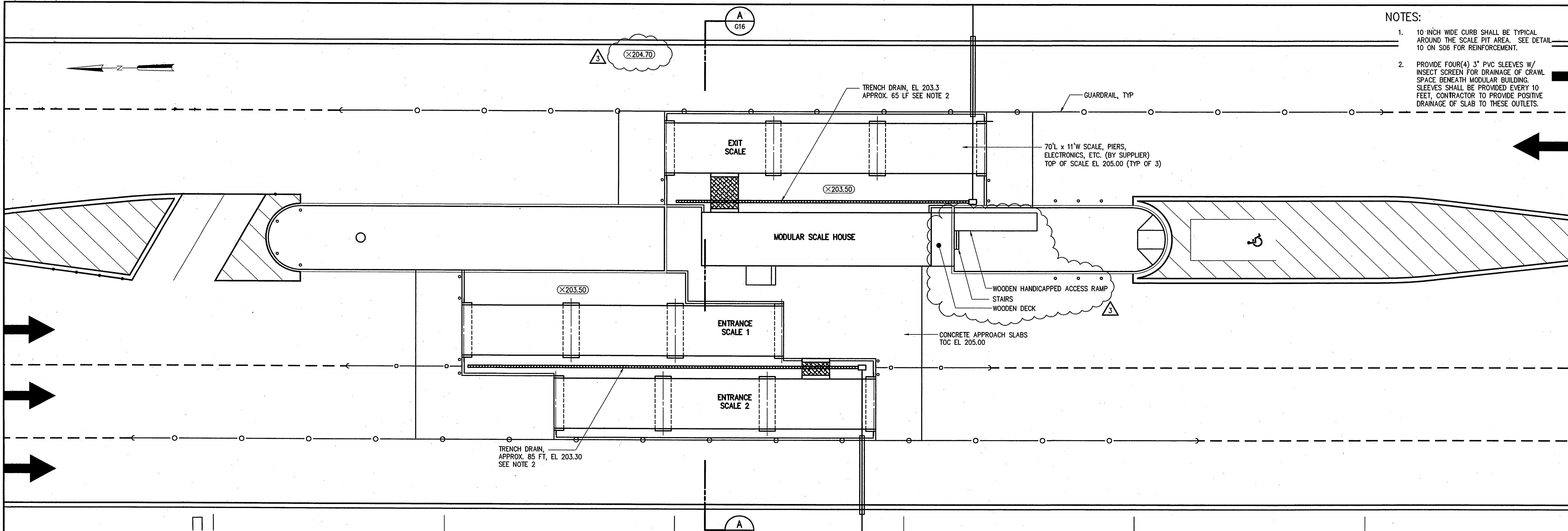
DATE JANUARY 2007


H & S JOB  
NUMBER 30579CONTRACT  
NUMBERDRAWING  
NUMBER G7

H&amp;S FLAT FILE NO.

RECORD DRAWING





					DESIGNED	JAB
					DRAWN	ADB
					CHECKED	
					PROJ. ENGR.	JAB
3	RECORD DRAWINGS	5/08	JAB			
2	CONSTRUCTION	3/07	JAB			
1	STATE APPROVAL	01/07	JAB			
NO.	ISSUED FOR	DATE	BY		APPROVED	

**RECORD DRAWING**

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY JOHN A. BOVE, SEAL NUMBER 19391

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER

**JOHN A. BOVE**  
Professional Engineer  
Seal Number 19391

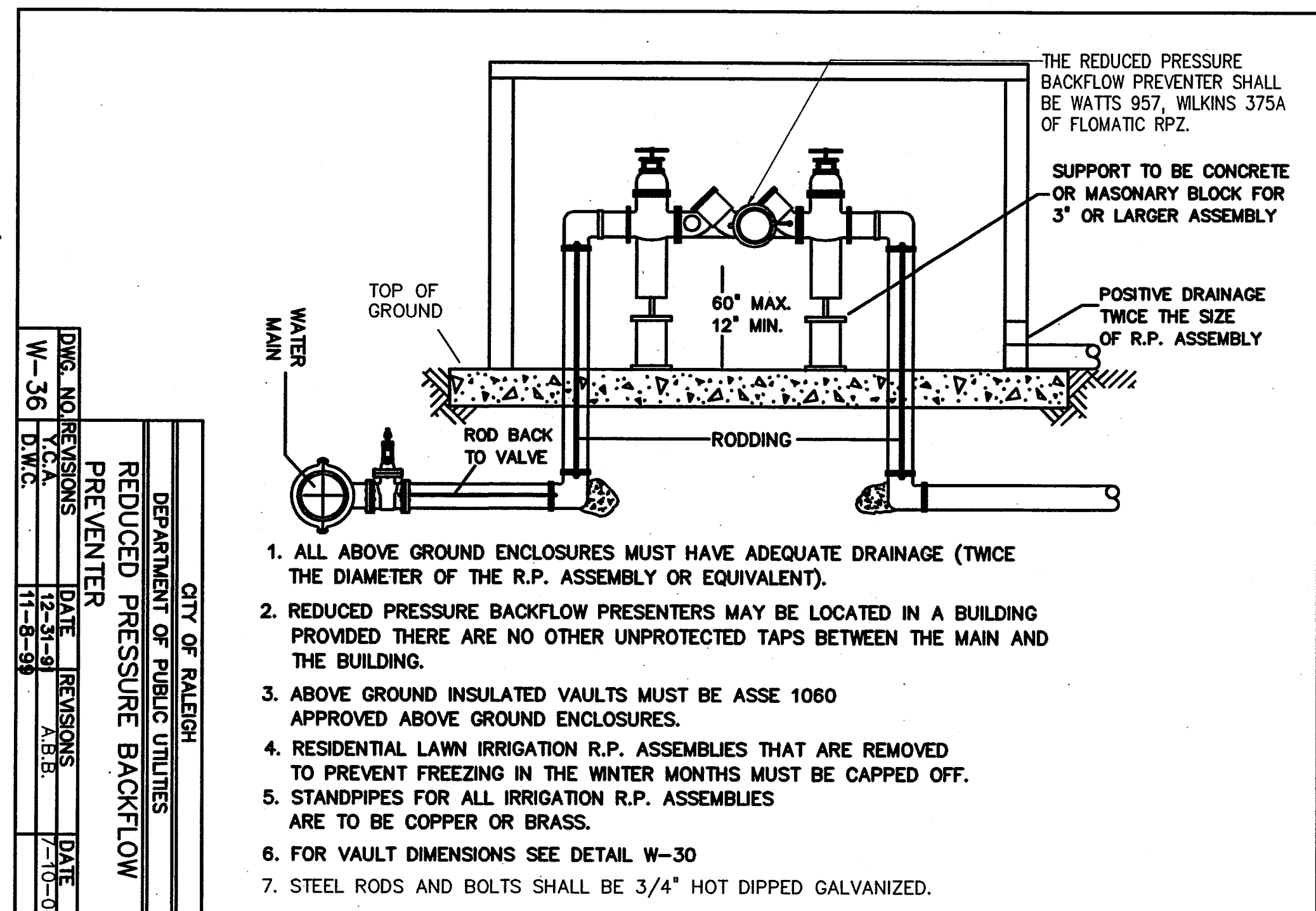
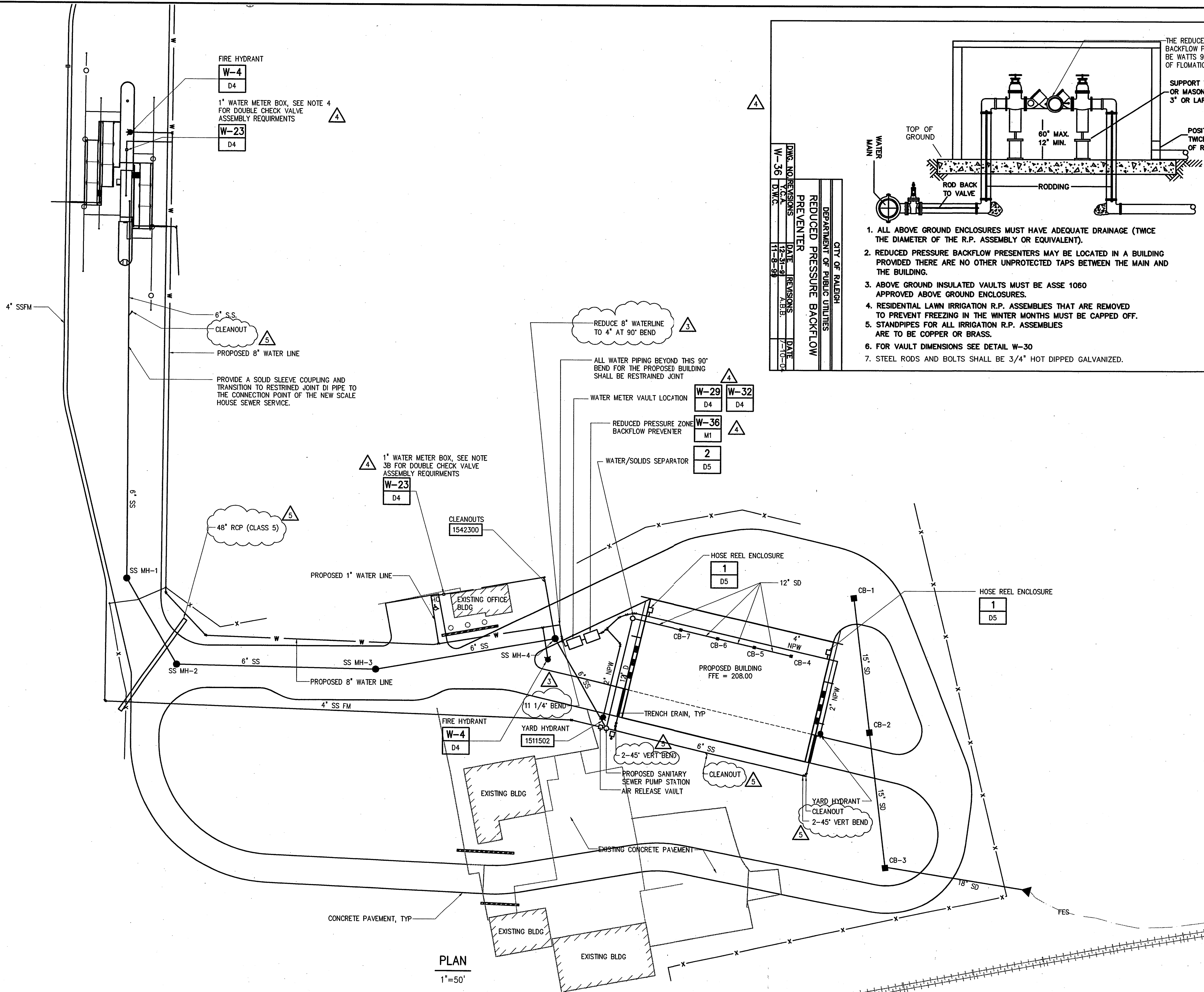
**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

**CITY OF RALEIGH**  
DEPARTMENT OF SOLID WASTE SERVICES  
**WILDERS GROVE SOLID WASTE TRANSFER FACILITY**  
820 CORPORATION PARKWAY, RALEIGH, NC

**SCALE DETAIL**  
GENERAL  
PLAN AND SECTION

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	JANUARY 2007
	H & S JOB NUMBER	30579
	CONTRACT NUMBER	
	DRAWING NUMBER	G16
	H&S FLAT FILE NO.	





1. ALL ABOVE GROUND ENCLOSURES MUST HAVE ADEQUATE DRAINAGE (TWICE THE DIAMETER OF THE R.P. ASSEMBLY OR EQUIVALENT).
2. REDUCED PRESSURE BACKFLOW PREVENTERS MAY BE LOCATED IN A BUILDING PROVIDED THERE ARE NO OTHER UNPROTECTED TAPS BETWEEN THE MAIN AND THE BUILDING.
3. ABOVE GROUND INSULATED VAULTS MUST BE ASSE 1080 APPROVED ABOVE GROUND ENCLOSURES.
4. RESIDENTIAL LAWN IRRIGATION R.P. ASSEMBLIES THAT ARE REMOVED TO PREVENT FREEZING IN THE WINTER MONTHS MUST BE CAPPED OFF.
5. STANDPIPES FOR ALL IRRIGATION R.P. ASSEMBLIES ARE TO BE COPPER OR BRASS.
6. FOR VAULT DIMENSIONS SEE DETAIL W-30
7. STEEL RODS AND BOLTS SHALL BE 3/4\"

- NOTES:**
1. FOR PLAN AND PROFILE OF PROPOSED 4-INCH SANITARY SEWER FORCEMAIN SEE DRAWING M-3.
  2. FOR PLAN AND PROFILE OF PROPOSED 8-INCH WATERLINE SEE DRAWING M-6.
  3. MODIFICATIONS TO EXISTING OFFICE BUILDING: NOTE THAT FLOOR TILES AND MASTIC IN EXISTING BATHROOMS HAVE BEEN IDENTIFIED AS ASBESTOS CONTAINING MATERIALS (ACM). CONTRACTOR SHALL MINIMIZE DISTURBANCE TO FLOORING IN BUILDING DURING CONSTRUCTION. SEE ACM REPORT IN APPENDIX B OF THE SPECIFICATIONS.
    - a. CONNECT NEW 1-INCH WATER SERVICE TO BUILDING.
    - b. REMOVE EXISTING HOT WATER HEATER AND PROPERLY CAP OFF EXISTING HOT WATER CONNECTIONS. A DOUBLE CHECK VALVE ASSEMBLY SHALL BE INSTALLED AS THE EXISTING WATER LINE ENTERS THE BUILDING SUCH THAT ALL WATER ENTERING THE BUILDING WILL PASS THROUGH THE ASSEMBLY. THE DOUBLE CHECK VALVE ASSEMBLY SHALL BE WATTS 775QT, WILKINS 950XL, OR FLOMATIC DCV.
    - c. INSTALL ELECTRIC POINT-OF-USE TANKLESS WATER HEATER IN BOTH EXISTING BATHROOMS. HEATER SHALL BE 240V 30AMP WITH A MINIMUM TEMPERATURE RISE OF 50°F AT 1 GPM. UNIT CAPACITY SHALL BE AT LEAST 2 GPM.
    - d. CLEAN EXISTING BATHROOM FIXTURES AND RESTORE TO PROPER OPERATION.
  4. THE SCALE HOUSE WATER SERVICE SHALL ENTER THE THE PREFABRICATED STRUCTURE AS DESIGNED BY THE BUILDING MANUFACTURER AND A DOUBLE CHECK VALVE ASSEMBLY SHALL BE INSTALLED INSIDE THE BUILDING SUCH THAT ALL OF THE FLOW INTO THE SCALE HOUSE PASSES THROUGH THE ASSEMBLY. THE DOUBLE CHECK VALVE ASSEMBLY SHALL BE WATTS 775QT, WILKINS 950XL, OR FLOMATIC DCV.

**Private Water Distribution / Extension System**  
 The City of Raleigh consents to the connection to its public water system and extension of the private water distribution system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh  
 Public Utilities Department Permit # \_\_\_\_\_  
 Authorization to Construct \_\_\_\_\_  
 Date \_\_\_\_\_

**Private Sewer Collection / Extension System**  
 The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh  
 Public Utilities Department Permit # \_\_\_\_\_  
 Authorization to Construct \_\_\_\_\_  
 Date \_\_\_\_\_



NO.	ISSUED FOR	DATE	BY
5	RECORD DRAWINGS	5/08	JAB
4	BUILDING PERMIT REVIEW COMMENTS	11/07	JAB
3	ADDENDUM NO. 1	6/07	JAB
2	CONSTRUCTION	3/07	JAB
1	STATE APPROVAL	01/07	JAB
NO.	ISSUED FOR	DATE	BY

DESIGNED: MJM  
 DRAWN: PWS  
 CHECKED: JAB  
 PROJ. ENGR.: JAB  
 APPROVED: \_\_\_\_\_

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIPIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY MARK J. MESSERE, SEAL NUMBER 18971

**RECORD DRAWING**

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER

**HAZEN AND SAWYER**  
 Environmental Engineers & Scientists  
 4011 WestChase Blvd, Raleigh, North Carolina 27607

**CITY OF RALEIGH**  
 DEPARTMENT OF SOLID WASTE SERVICES

**WILDERS GROVE SOLID WASTE TRANSFER FACILITY**  
 820 CORPORATION PARKWAY, RALEIGH, NC

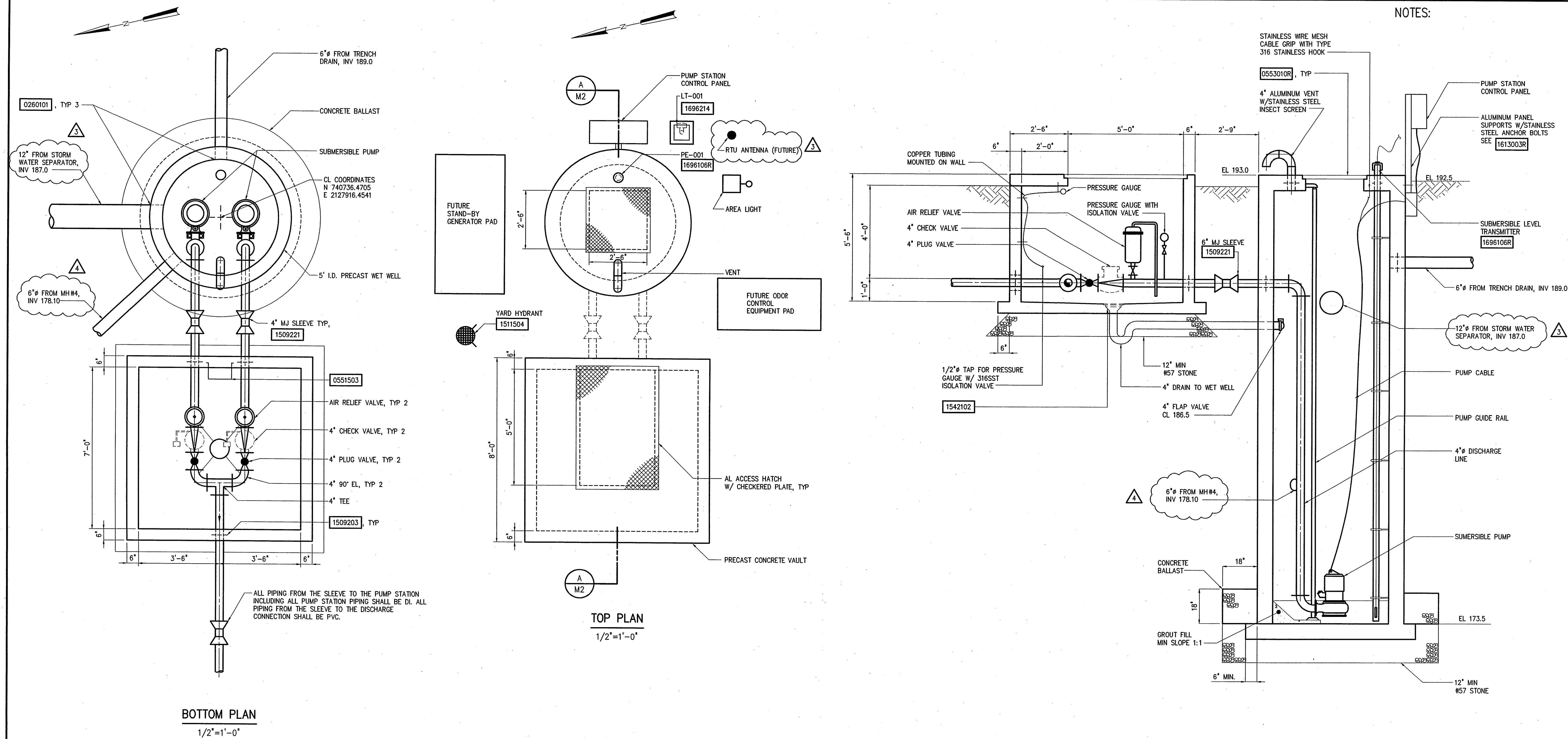
**SITE MECHANICAL YARD PIPING PLAN**

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE: JANUARY 2007  
 H & S JOB NUMBER: 30579  
 CONTRACT NUMBER: \_\_\_\_\_  
 DRAWING NUMBER: M1  
 H&S FLAT FILE NO. \_\_\_\_\_

RECORD DRAWING



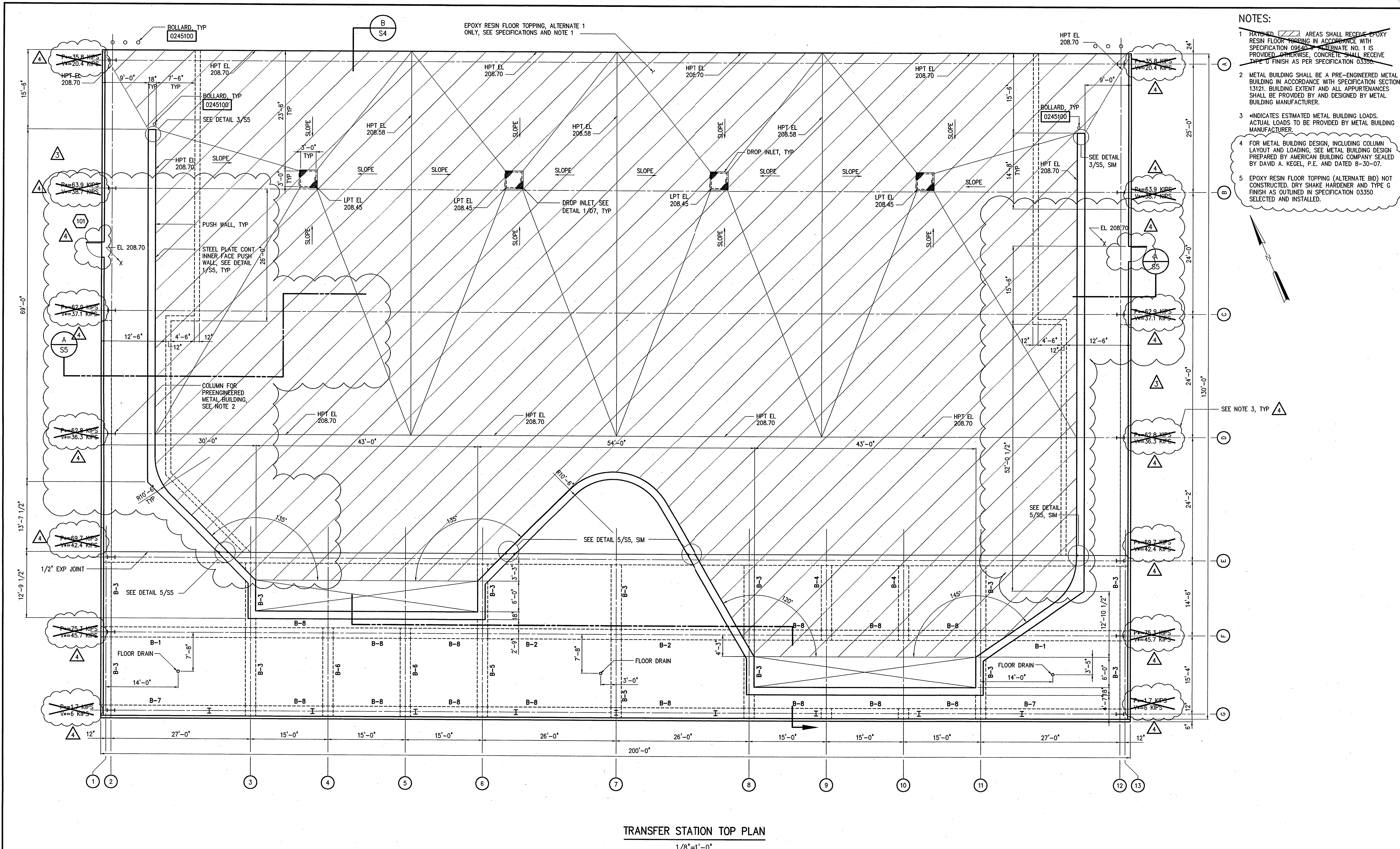


--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

RECORD DRAWING

2006068 2:22P H:\30579\WCS\WCS.dwg By: PFEILS08 Last Saved By: pfeils08





- NOTES:
- 1 HATCHED AREAS SHALL RECEIVE EPOXY RESIN FLOOR TOPPING IN ACCORDANCE WITH SPECIFICATION 09640. ALTERNATE NO. 1 IS PROVIDED. OTHERWISE, CONCRETE SHALL RECEIVE TYPE G FINISH AS PER SPECIFICATION 03350.
  - 2 METAL BUILDING SHALL BE A PRE-ENGINEERED METAL BUILDING IN ACCORDANCE WITH SPECIFICATION SECTION 13121. BUILDING EXTENT AND ALL APPURTENANCES SHALL BE PROVIDED BY AND DESIGNED BY METAL BUILDING MANUFACTURER.
  - 3 \*INDICATES ESTIMATED METAL BUILDING LOADS. ACTUAL LOADS TO BE PROVIDED BY METAL BUILDING MANUFACTURER.
  - 4 FOR METAL BUILDING DESIGN, INCLUDING COLUMN LAYOUT AND LOADING, SEE METAL BUILDING DESIGN PREPARED BY AMERICAN BUILDING COMPANY SEALED BY DAVID A. KEGEL, P.E. AND DATED 8-30-07.
  - 5 EPOXY RESIN FLOOR TOPPING (ALTERNATE BID) NOT CONSTRUCTED. DRY SHAKE HARDENER AND TYPE G FINISH AS OUTLINED IN SPECIFICATION 03350 SELECTED AND INSTALLED.

TRANSFER STATION TOP PLAN  
1/8"=1'-0"

DESIGNED	AHT
DRAWN	AHT
CHECKED	JAB
PROJ. ENGR.	JAB
APPROVED	
NO.	
4	RECORD DRAWINGS
3	ADDENDUM 1
2	CONSTRUCTION
1	STATE APPROVAL
	ISSUED FOR
	DATE
	BY

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY AMY H. THURSTON, SEAL NUMBER 30535

RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER

**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

**CITY OF RALEIGH**  
DEPARTMENT OF SOLID WASTE SERVICES  
WILDERS GROVE SOLID WASTE  
TRANSFER FACILITY  
820 CORPORATION PARKWAY, RALEIGH, NC

TRANSFER STATION  
STRUCTURAL  
TOP PLAN

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE JANUARY 2007  
H & S JOB NUMBER 30579  
CONTRACT NUMBER  
DRAWING NUMBER S2  
H&S FLAT FILE NO.



NOTES:  
1 FOR METAL BUILDING DESIGN, INCLUDING COLUMN LAYOUT AND LOADING, SEE METAL BUILDING DESIGN PREPARED BY AMERICAN BUILDING COMPANY SEALED BY DAVID A. KEGEL, P.E. AND DATED 8-30-07.

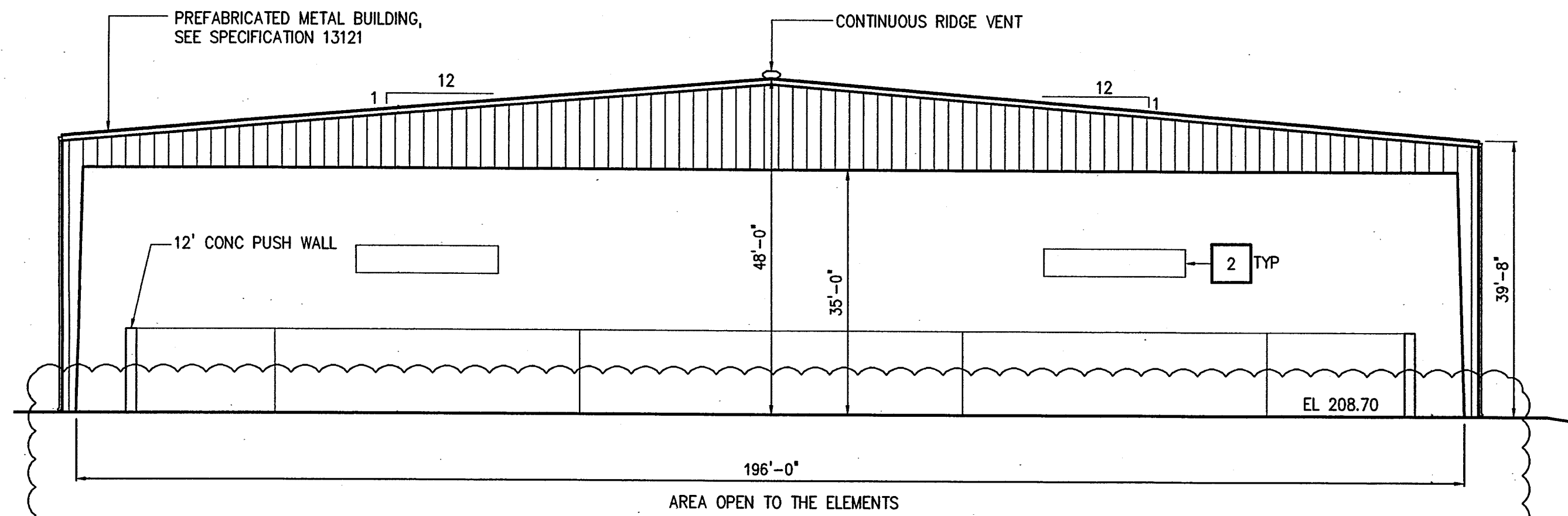
# ROOF DRAIN CALCULATIONS

Name of Building: WILDERS GROVE SW TRANSFER FACILITY Location (City): RALEIGH State: NC

## PRIMARY ROOF DRAINS- GUTTERS WITH DOWNSPOUTS

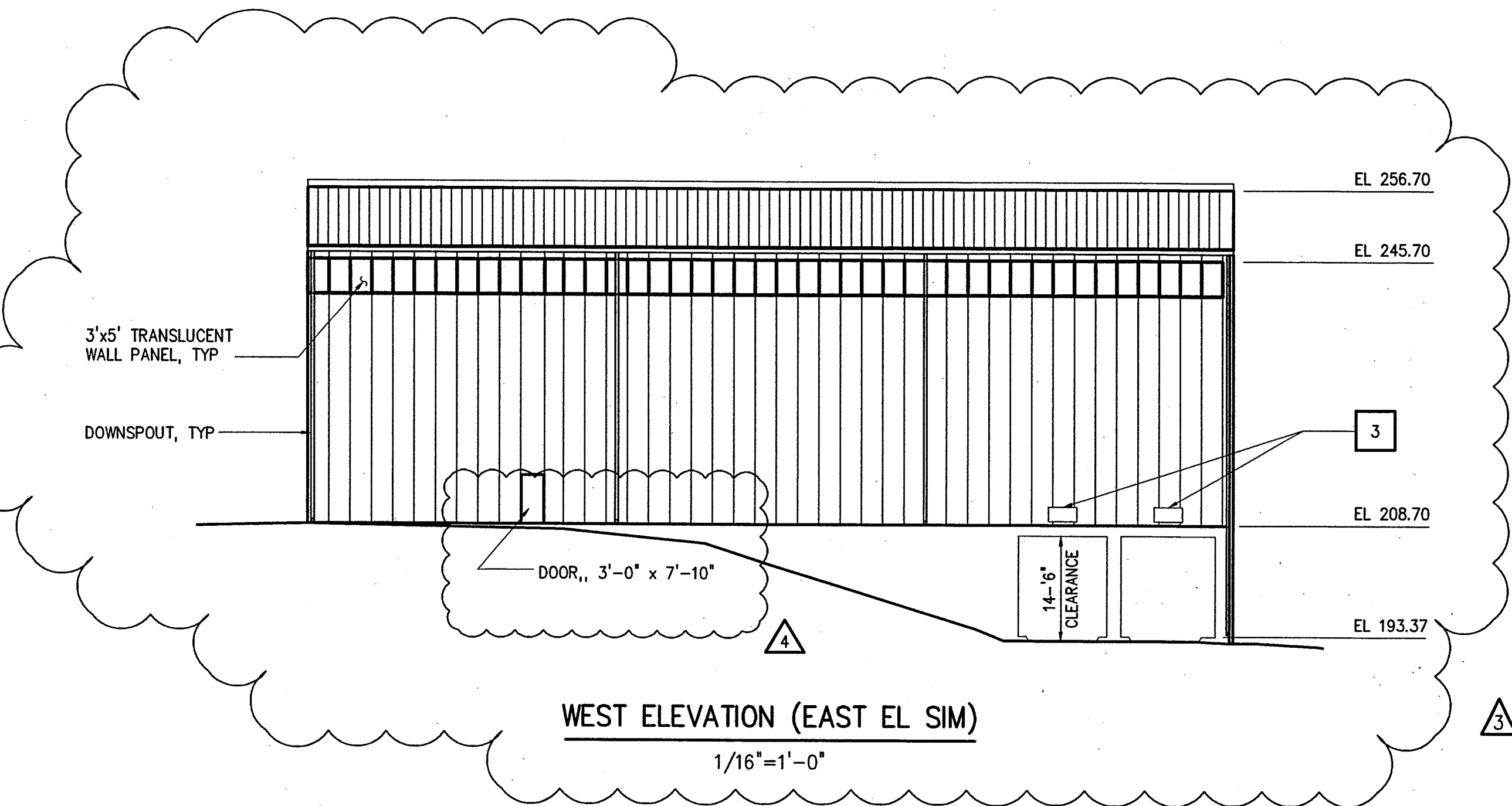
Figure 1106.1 Rainfall Rate for Primary Roof Drains (in/hr): 3.5 in/hr

Roof Name	Horizontally Projected Roof Area (square feet)	SIZE OF SEMICIRCULAR ROOF GUTTERS					SIZE OF VERTICAL CONDUCTORS AND LEADERS				
		Gutter Size	Gutter Area (square inches)	(closest) Gutter Diameter T 1106.6 (inches)	Slope T 1106.6	Roof Area Allowed per Gutter T 1106.6 (square feet)	Downspout Size	Downspout Area (square inches)	(closest) Pipe Diameter T 1106.2 (inches)	Roof Area Allowed per Downspout T 1106.2 (square feet)	# Downspouts Required
West Slope	13,000 sf	5"x6"	30 sq in	8"	4%	5,600 sf	4"x5"	20 sq in	5"	8,650 sf	3
East Slope	13,000 sf	5"x6"	30 sq in	8"	4%	5,600 sf	4"x5"	20 sq in	5"	8,650 sf	3



NORTH ELEVATION

1/16"=1'-0"

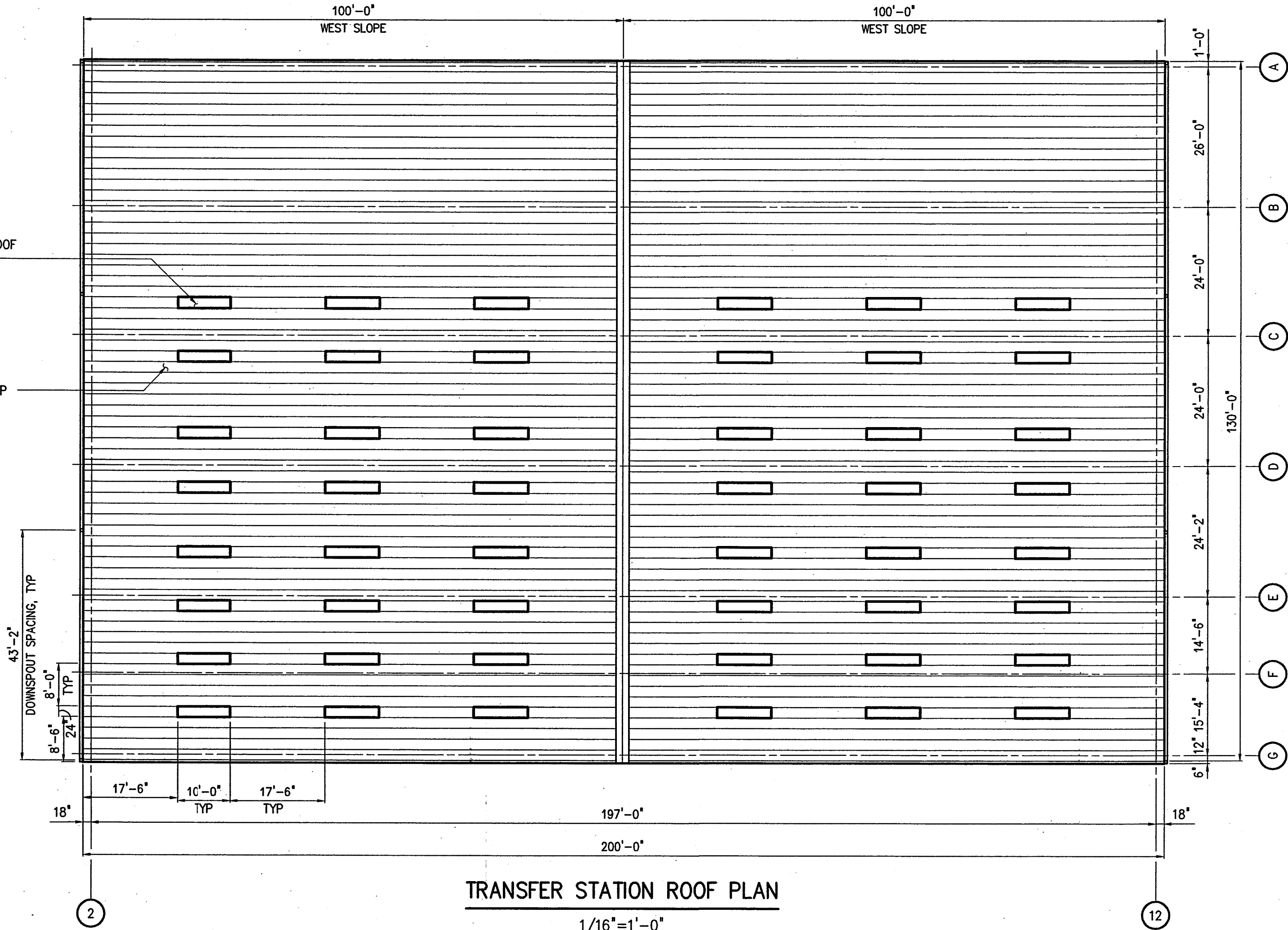


WEST ELEVATION (EAST EL SIM)

1/16"=1'-0"

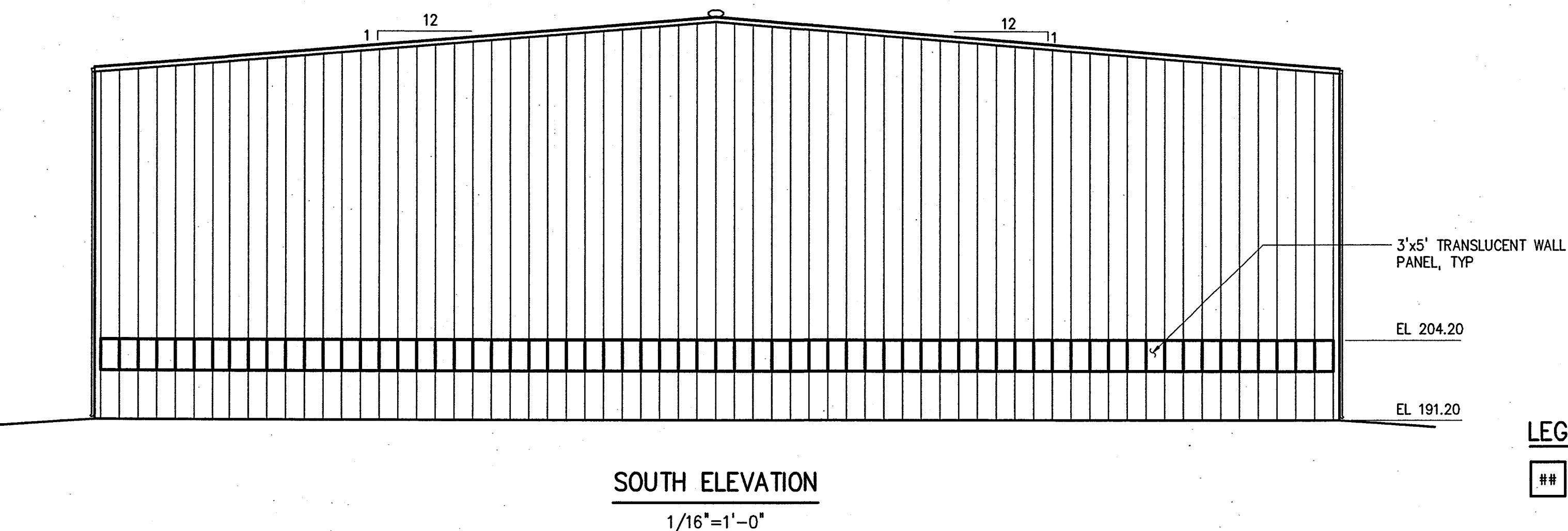
2'x10' TRANSLUCENT ROOF PANEL, TYP

METAL ROOF PANEL, TYP



TRANSFER STATION ROOF PLAN

1/16"=1'-0"



SOUTH ELEVATION

1/16"=1'-0"

## LEGEND

## SEE A1 FOR SIGNAGE AND MIRRORS

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWINGS	5/08	JAB	
4	BUILDING PERMIT SUBMITTAL	11/07	JAB	
3	ADDENDUM 1	4/03	JAB	
2	CONSTRUCTION	3/07	JAB	
1	STATE APPROVAL	01/07	JAB	

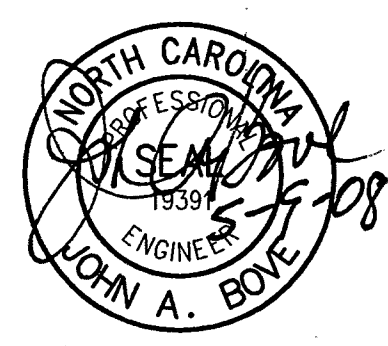
DESIGNED: AHT  
DRAWN: AHT  
CHECKED: JAB  
PROJ. ENGR.: JAB

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY AMY H. THURSTON, SEAL NUMBER 30535

## RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER



**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

CITY OF RALEIGH  
DEPARTMENT OF SOLID WASTE SERVICES  
WILDERS GROVE SOLID WASTE  
TRANSFER FACILITY  
820 CORPORATION PARKWAY, RALEIGH, NC

TRANSFER STATION  
STRUCTURAL  
ROOF PLAN AND ELEVATIONS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE: JANUARY 2007
H & S JOB NUMBER	30579
CONTRACT NUMBER	DRAWING NUMBER
	S3
H & S FLAT FILE NO.	



NOTES:

1. CONCRETE SLAB SHALL RECEIVE EPOXY RESIN FLOOR TOPPING IN ACCORDANCE WITH SPECIFICATION 09640 IF ALTERNATE NO. 1 IS PROVIDED. OTHERWISE, CONCRETE SHALL RECEIVE TYPE G FINISH AS PER SPECIFICATION 03350. SEE DRAWING S2 FOR EXTENTS.

TYPE G FINISH SELECTED

EPOXY RESIN FLOOR TOPPING, ALTERNATE 1 ONLY, SEE NOTE 1

WATERSTOP

1/2" NEOPRENE BEARING PAD

TOP OF CORBEL EL 207.66 PER RFI NO. 3 7/2/07

1/2" EXP JOINT  
0325100

MAIN SLAB REINFORCING NOT SHOWN FOR CLARITY, TYP

3-#3 TIES @ 4"

#5@8"

MAIN WALL REINFORCING NOT SHOWN FOR CLARITY

DETAIL 7  
3/4"=1'-0"

PREFABRICATED METAL BUILDING, SEE SPECIFICATION 13121

TOP OF STEEL PL EL 214.70

1/4" PL

3/8" DIAx4' ARC WELDED STUD @ 2'-0" O.C., TYP

CONC SLAB BEYOND

EL 207.20

EL 220.70

PUSH WALL, TYP

TOP OF PL EL 214.70

STEEL PLATE AT FLOOR SLAB OPENING

DETAIL 6  
1/2"=1'-0"

NOTE: PROVIDE 1/8" PER FOOT SLOPE TO ALL UNDERDRAIN PIPES

#57 STONE

UNDERDRAIN PIPE

FILTER GEOTEXTILE

CONC WALL

#57 STONE

DRAIN DETAIL

DETAIL 4  
1"=1'-0"

CONC CURB, TYP

EL 193.37

EL 191.20

SUBGRADE COMPACTED PER SPECIFICATIONS, TYP

SECTION B  
1/4"=1'-0"

CONC CORBEL FULL LENGTH OF WALL, SEE DETAIL 7/S4

1/2" EXP JOINT  
0325100

#7@8" EF

#7@8" EF

1/2" EXP JOINT  
0325100

#5@8" EW T&B, TYP

6" DRAIN PIPE, SEE DETAIL 4/S4

STEEL PLATE CONT INNER FACE PUSH WALL, SEE DETAIL 6/S4, TYP

#6@8" EF, TYP

#6@8" EF, TYP

#6 DWLS @8" EF, TYP

14'-6" CLEAR

9'-6" TYP

#5@8", TYP

EL VARIES

CONC COL BEYOND, SEE DETAIL 2/S5, TYP

120" TYP

12" MIN #57 STONE

EPOXY RESIN FLOOR TOPPING, ALTERNATE 1 ONLY, SEE NOTE 1

LPT EL 208.45

SLOPE

SLOPE

#6@8" EW T&B, TYP

DROP INLET, SEE DETAIL 1/D7

SUBGRADE COMPACTED PER SPECIFICATIONS, TYP

12" MIN #57 STONE

BACKFILL W/ #57 STONE

PREFABRICATED METAL BUILDING, SEE SPECIFICATION 13121

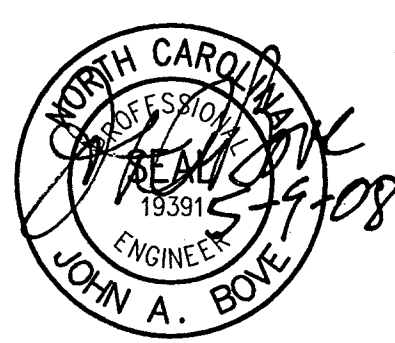
DESIGNED AHT  
DRAWN AHT  
CHECKED JAB  
PROJ. ENGR. JAB  
APPROVED

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY AMY H. THURSTON, SEAL NUMBER 30535

RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER



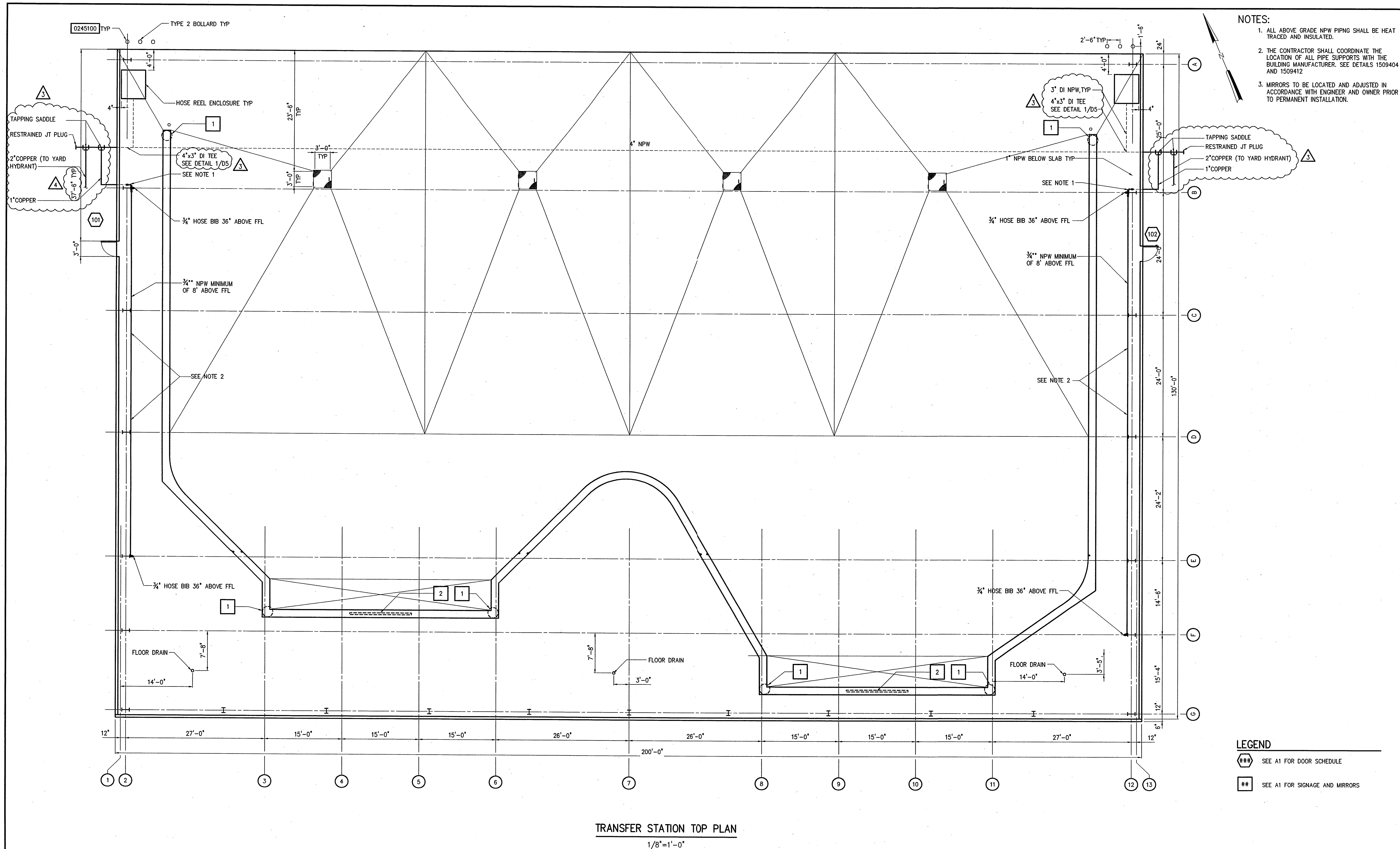
**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

CITY OF RALEIGH  
DEPARTMENT OF SOLID WASTE SERVICES  
WILDERS GROVE SOLID WASTE  
TRANSFER FACILITY  
820 CORPORATION PARKWAY, RALEIGH, NC

TRANSFER STATION  
STRUCTURAL  
SECTION AND DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.  
DATE JANUARY 2007  
H & S JOB NUMBER 30579  
CONTRACT NUMBER  
DRAWING NUMBER S4  
H & S FLAT FILE NO.





- NOTES:**
1. ALL ABOVE GRADE NPW PIPING SHALL BE HEAT TRACED AND INSULATED.
  2. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL PIPE SUPPORTS WITH THE BUILDING MANUFACTURER. SEE DETAILS 1509404 AND 1509412.
  3. MIRRORS TO BE LOCATED AND ADJUSTED IN ACCORDANCE WITH ENGINEER AND OWNER PRIOR TO PERMANENT INSTALLATION.

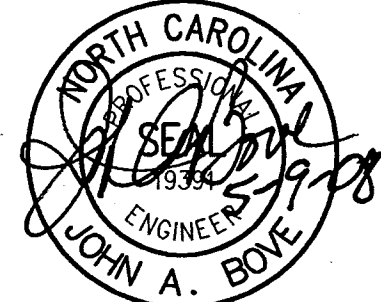
- LEGEND**
- ### SEE A1 FOR DOOR SCHEDULE
  - ## SEE A1 FOR SIGNAGE AND MIRRORS

**TRANSFER STATION TOP PLAN**  
1/8"=1'-0"

4	RECORD DRAWINGS	5/08	JAB
3	BUILDING PERMIT REVIEW COMMENTS	11/07	JAB
2	CONSTRUCTION	3/07	JAB
1	STATE APPROVAL	01/07	JAB
NO.	ISSUED FOR	DATE	BY

DESIGNED WHR  
 DRAWN PWS/MMM  
 CHECKED JAB  
 PROJ. ENGR. JAB  
 APPROVED \_\_\_\_\_

**RECORD DRAWING**  
 THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER



**HAZEN AND SAWYER**  
 Environmental Engineers & Scientists  
 4011 WestChase Blvd, Raleigh, North Carolina 27607

**CITY OF RALEIGH**  
**DEPARTMENT OF SOLID WASTE SERVICES**  
**WILDERS GROVE SOLID WASTE TRANSFER FACILITY**  
**820 CORPORATION PARKWAY, RALEIGH, NC**

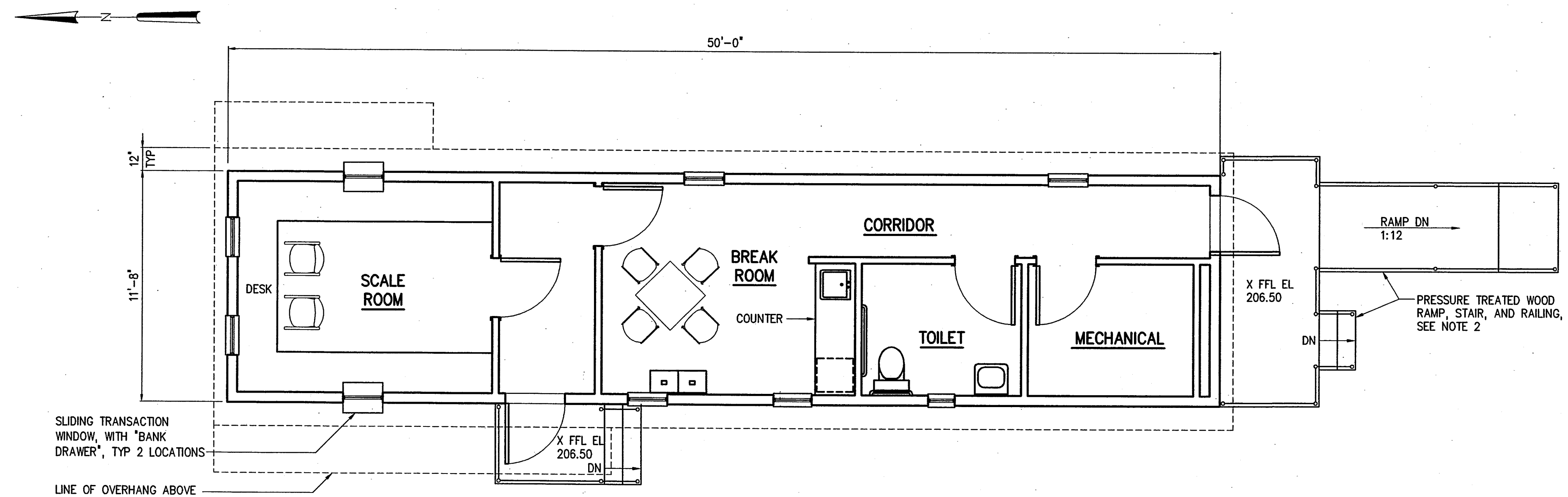
**TRANSFER STATION ARCHITECTURAL TOP PLAN**

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE <b>JANUARY 2007</b>
H & S JOB NUMBER <b>30579</b>	CONTRACT NUMBER
DRAWING NUMBER <b>A2</b>	H&S FLAT FILE NO.

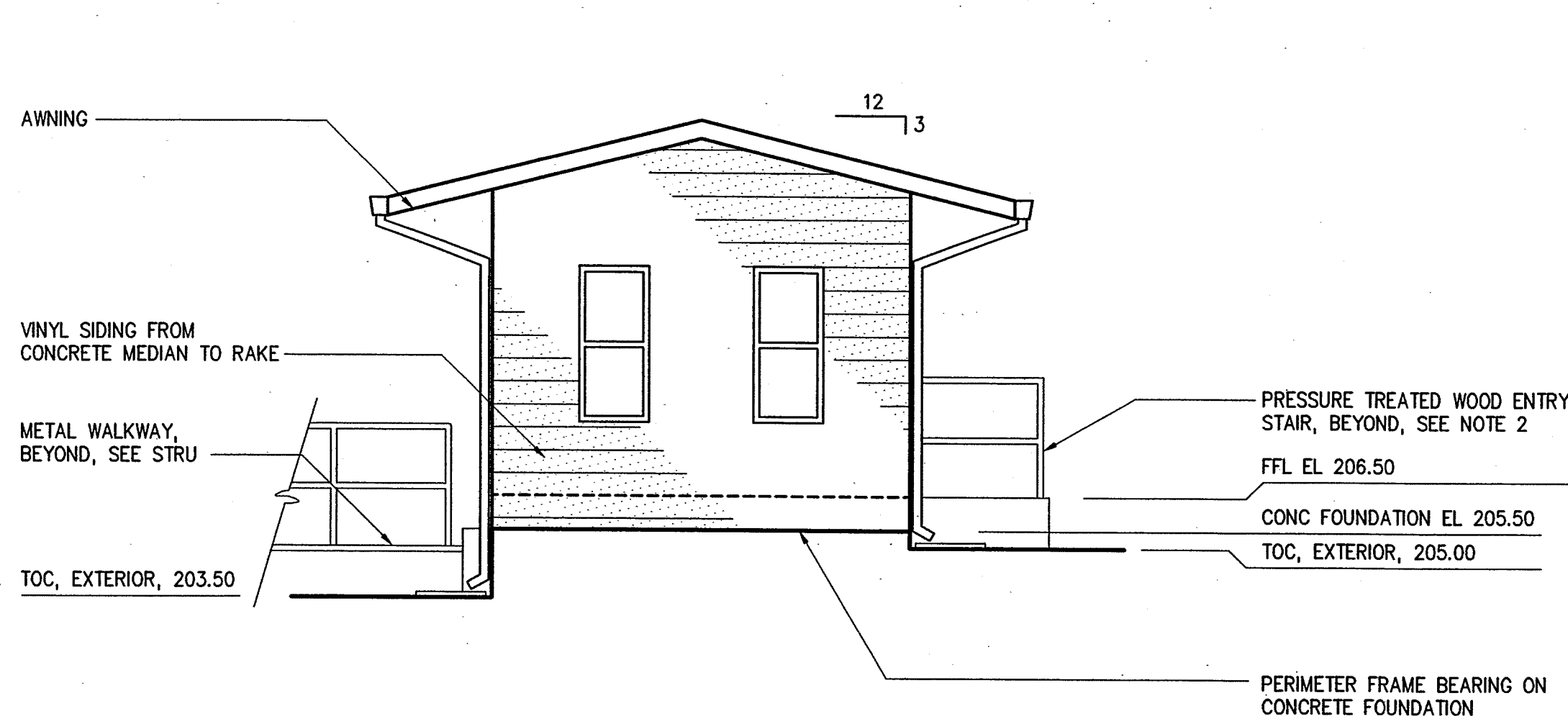
RECORD DRAWING



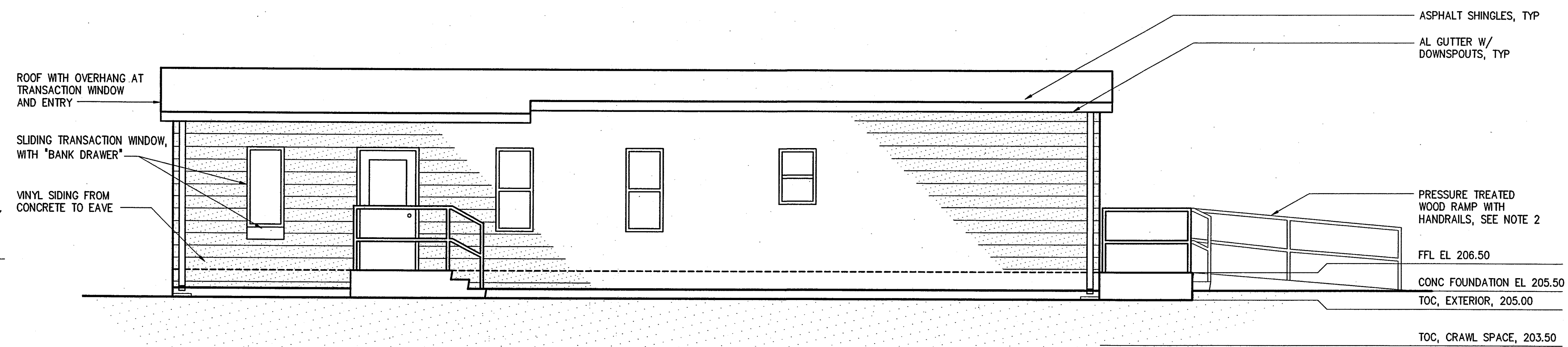
- NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WATER AND SEWER STUB UP LOCATION SUCH THAT IT CORRESPONDS TO THE LOCATION PROVIDED BY THE SCALE HOUSE MANUFACTURER. CONNECTION OF THE WATER AND SEWER FROM THE NEW SCALE HOUSE TO THE IN GROUND STUB UPS SHALL ALSO BE COMPLETED BY THE CONTRACTOR. ALL EXPOSED SEWER PIPING IN THE CRAWL SPACE SHALL BE PVC AND ALL EXPOSED WATER PIPING IN THE CRAWL SPACE SHALL BE COPPER.
  2. FIELD CONSTRUCT LANDINGS, STAIR, RAMP, AND HAND RAILS OF PRESSURE TREATED WOOD AS REQUIRED TO MEET NORTH CAROLINA STATE BUILDING CODE. SEE FRAMING PLAN AND DETAILS ON DRAWING A04.
  3. FOR MODULAR SCALEHOUSE DESIGN SEE DESIGN PREPARED BY DIAMOND BUILDERS, INC. AND SEALED BY JAMES BRADLEY, P.E. DATED JANUARY 14, 2008.



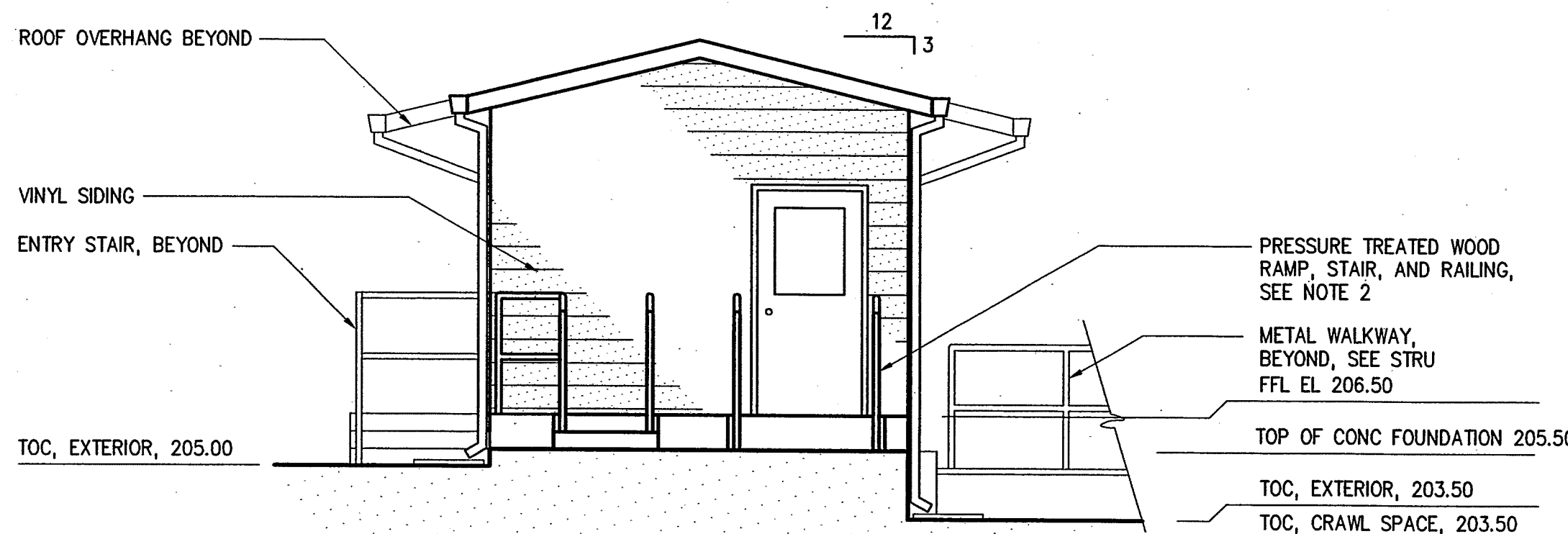
TOP PLAN  
1/4"=1'-0"



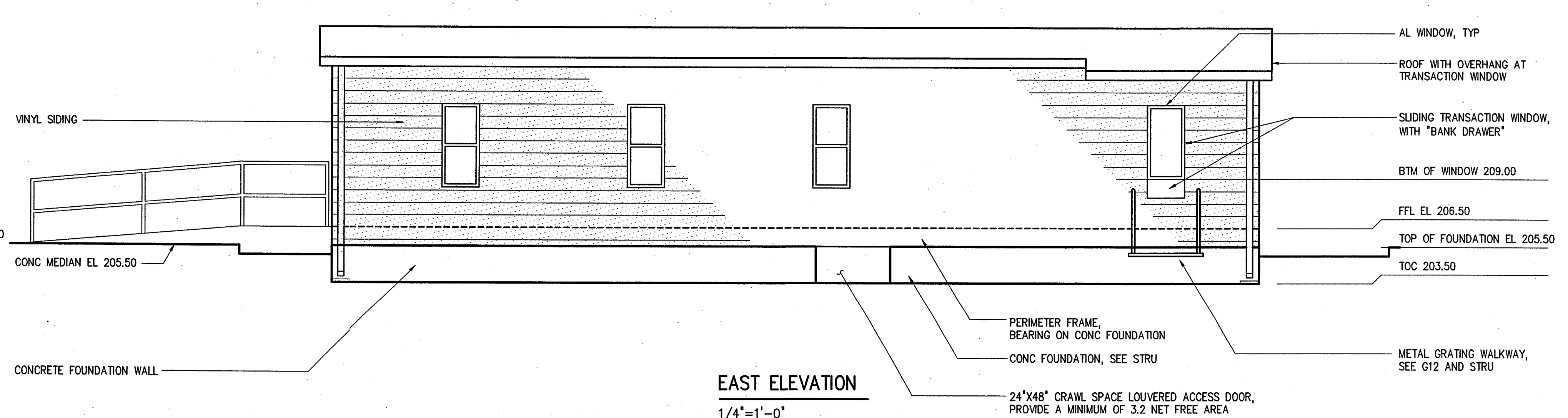
NORTH ELEVATION  
1/4"=1'-0"



WEST ELEVATION  
1/4"=1'-0"



SOUTH ELEVATION  
1/4"=1'-0"



EAST ELEVATION  
1/4"=1'-0"

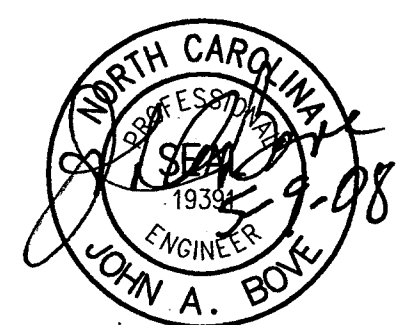
DESIGNED	WHR
DRAWN	ALB/MMM
CHECKED	JAB
PROJ. ENGR.	JAB
NO.	DATE
3	5/08
2	3/07
1	01/07
NO.	DATE

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIPIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY WILLIAM H. RUSSELL, SEAL NUMBER 6211

RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER



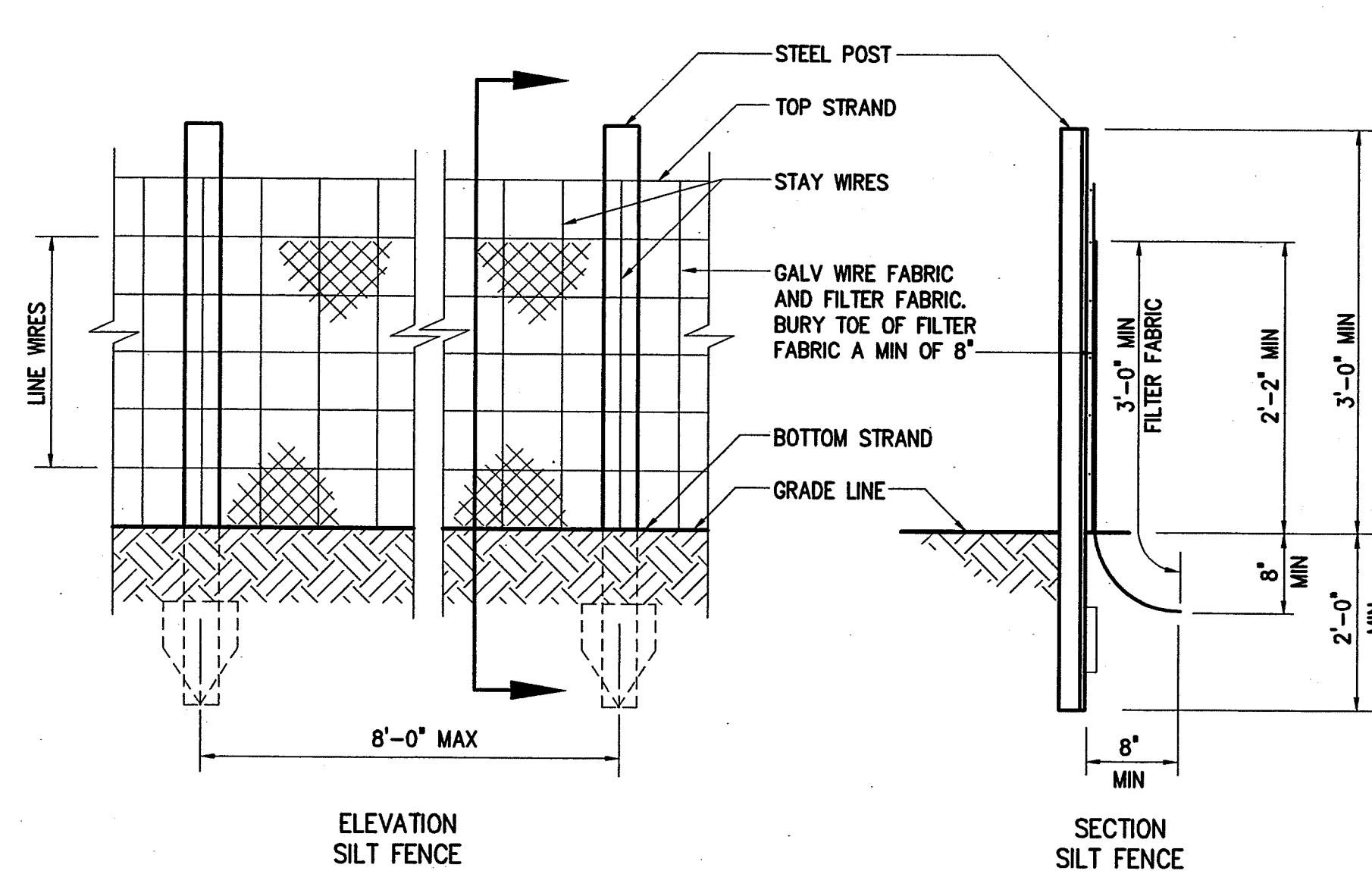
**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

CITY OF RALEIGH  
DEPARTMENT OF SOLID WASTE SERVICES  
WILDERS GROVE SOLID WASTE TRANSFER FACILITY  
820 CORPORATION PARKWAY, RALEIGH, NC

MODULAR SCALE HOUSE  
ARCHITECTURAL  
TOP PLAN AND ELEVATIONS

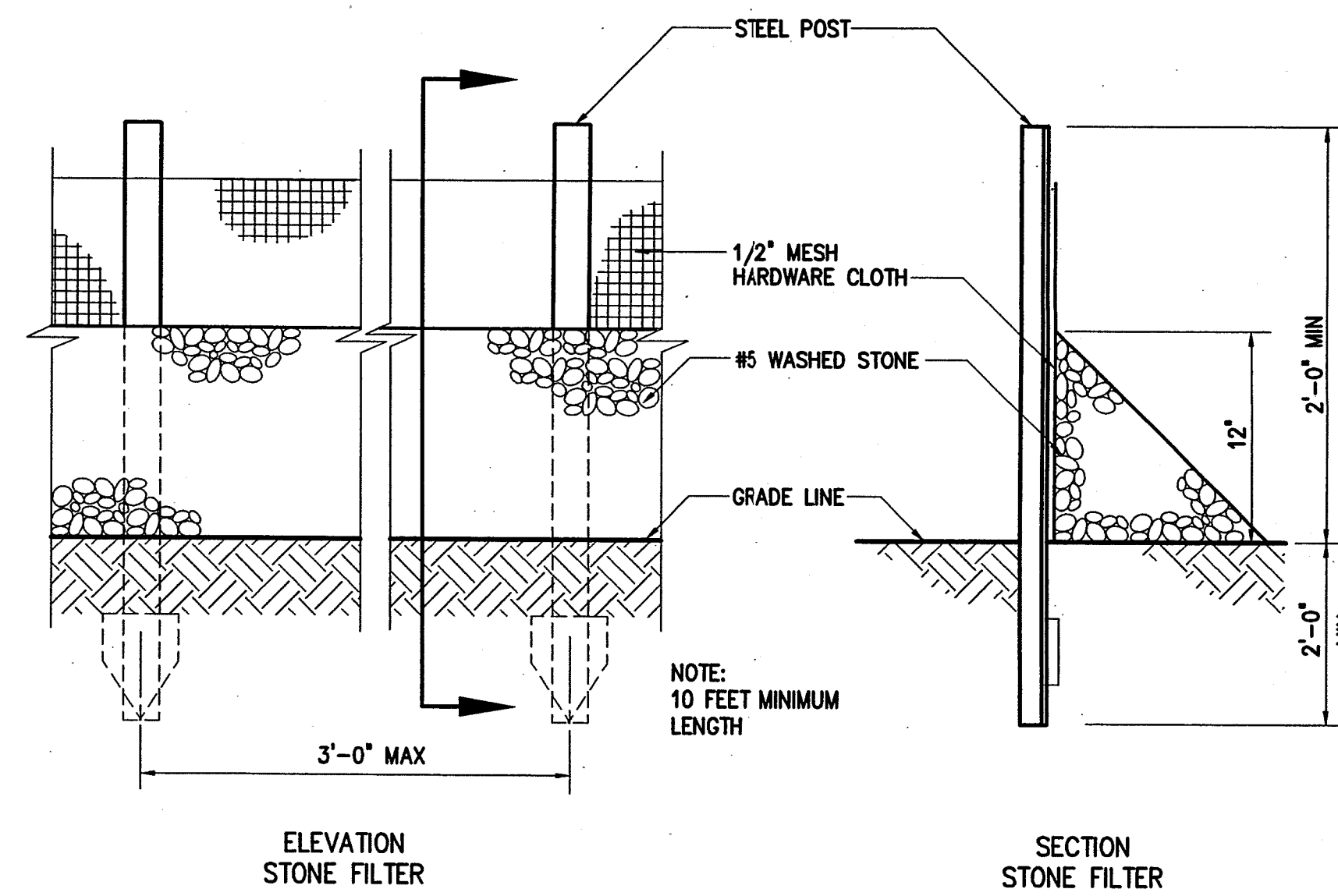
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE	JANUARY 2007
	H & S JOB NUMBER	30579
	CONTRACT NUMBER	
	DRAWING NUMBER	A3
	H&S FLAT FILE NO.	

RECORD DRAWING

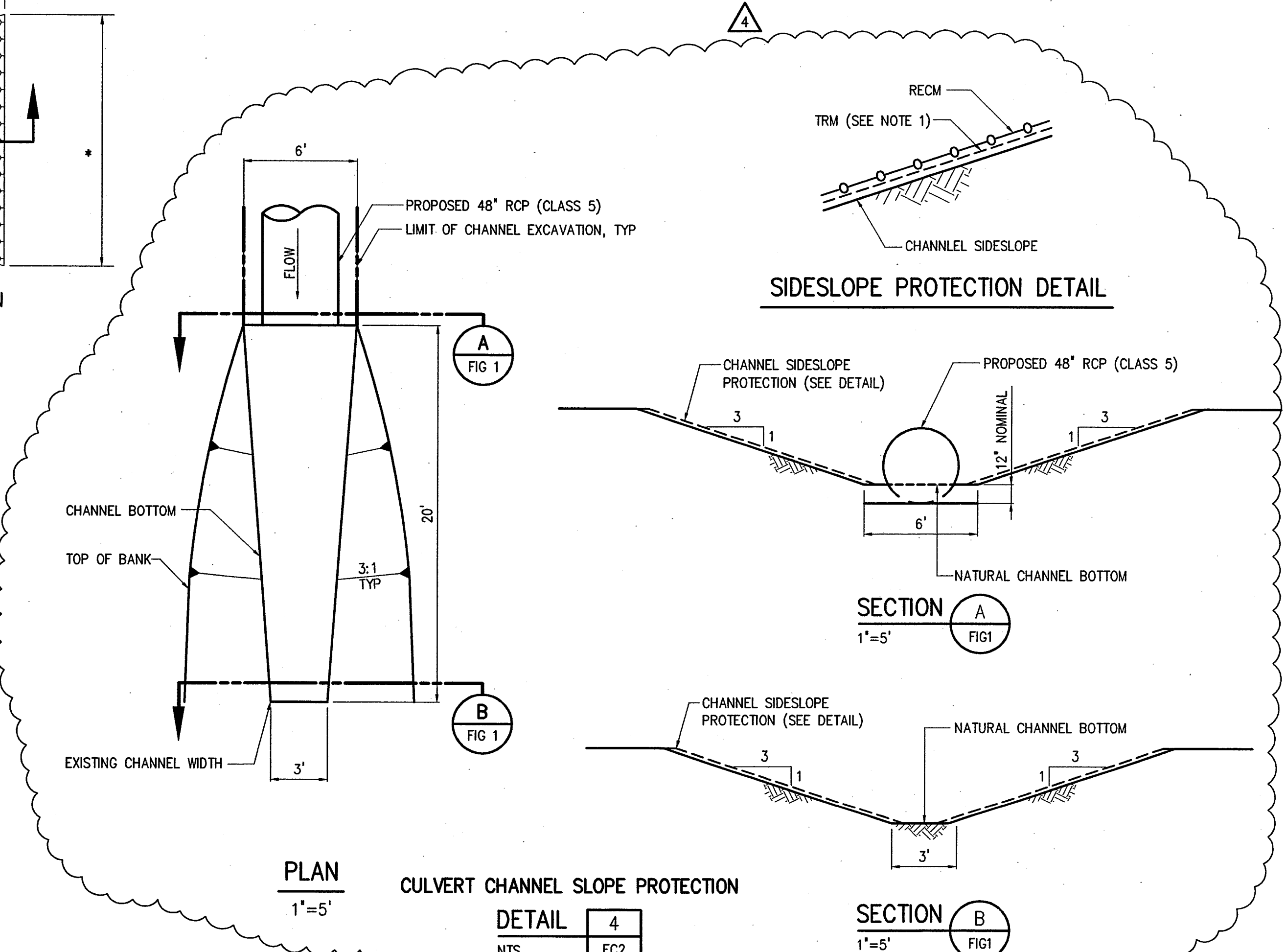
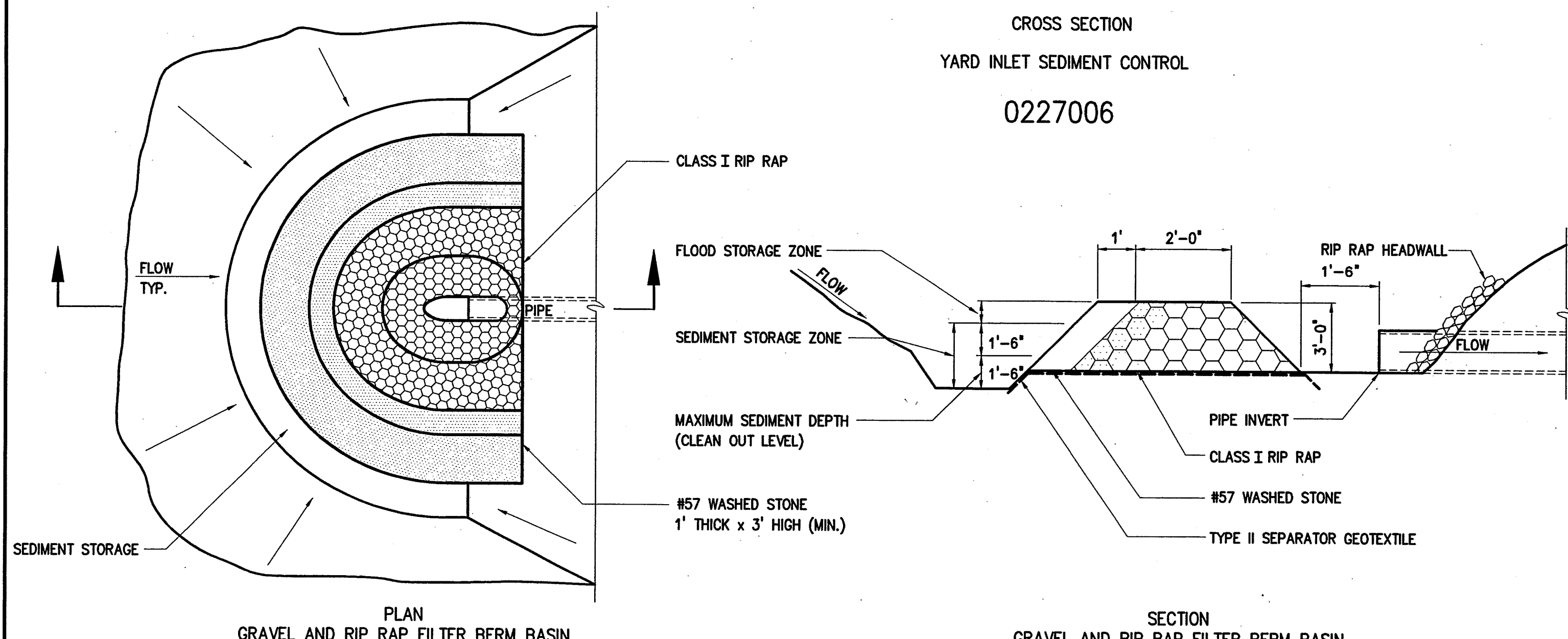
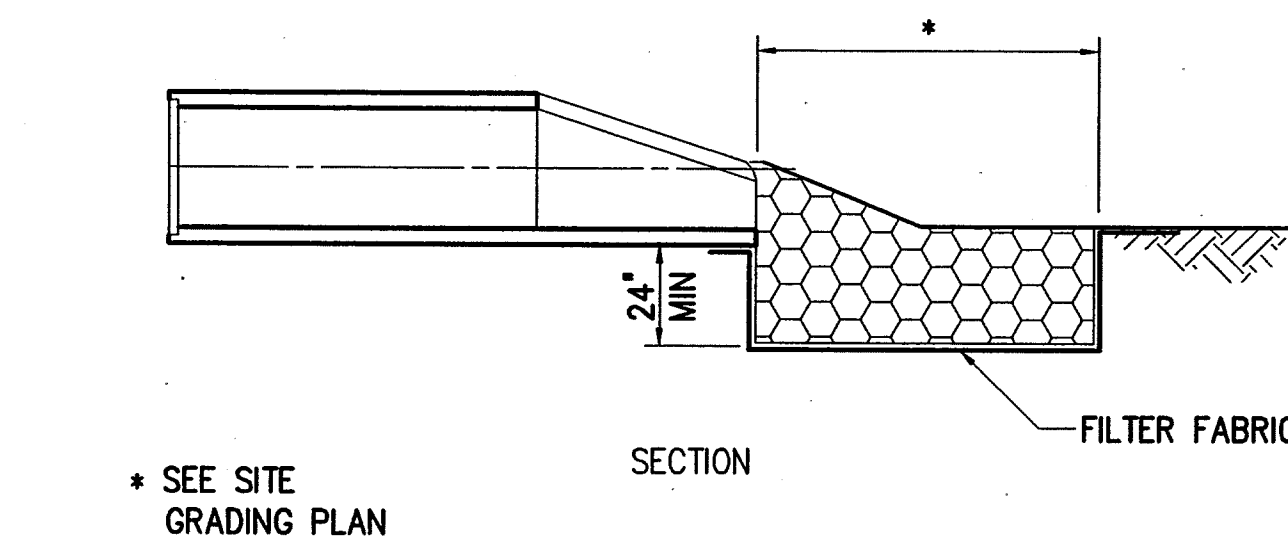
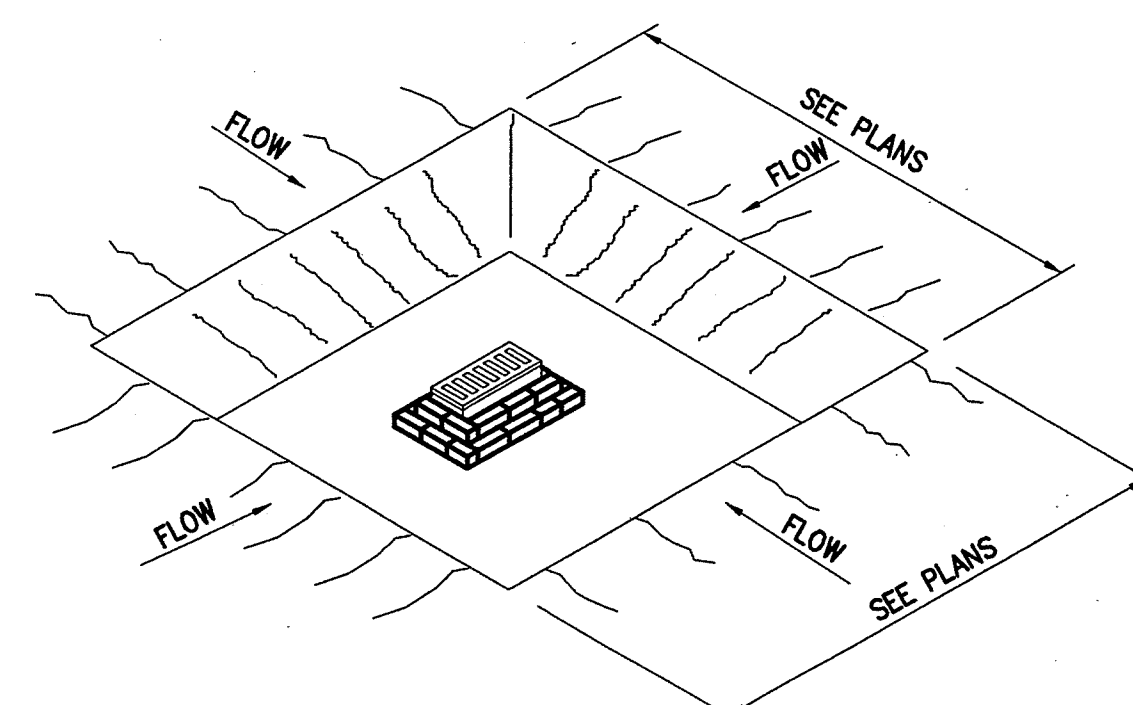
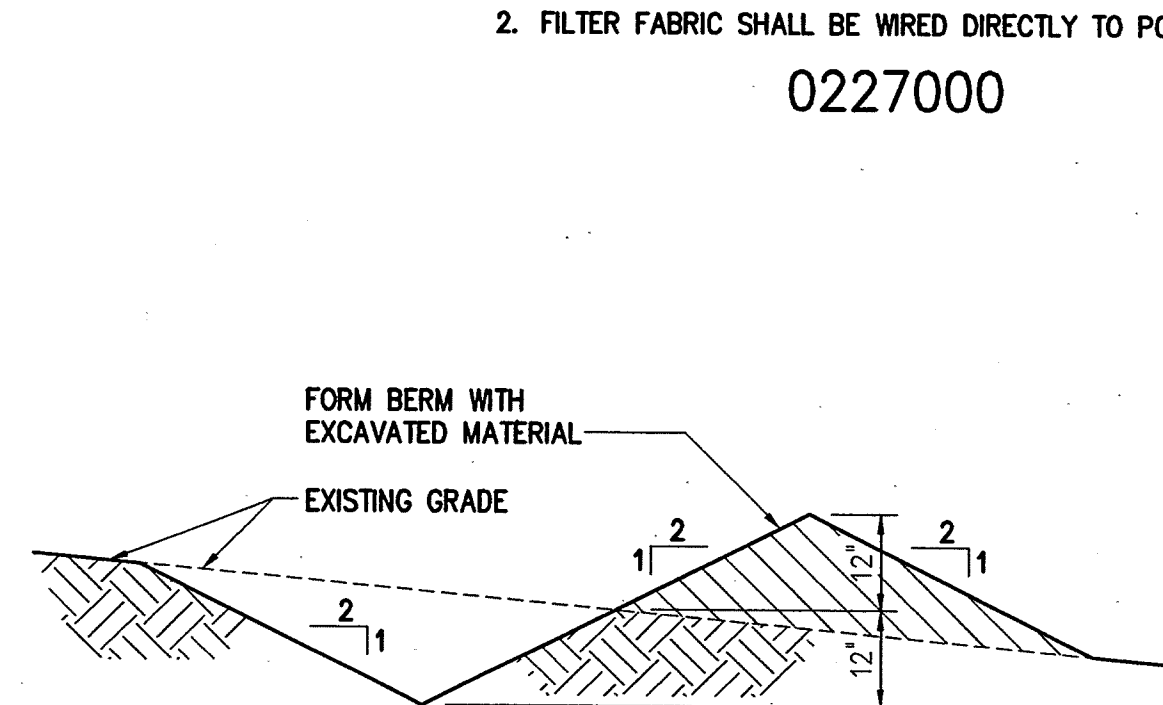
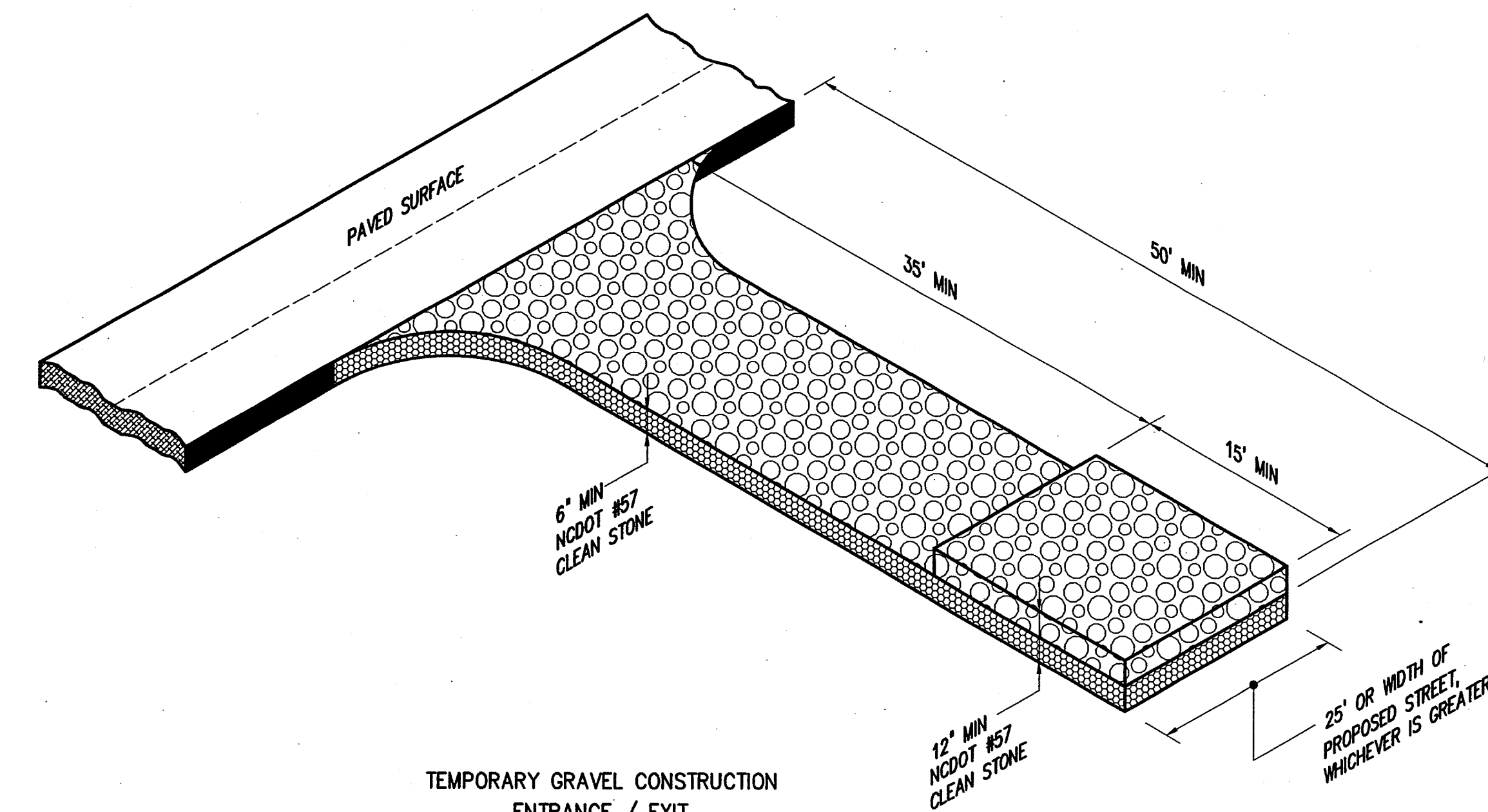


- NOTE:
1. EXTRA STRENGTH FILTER FABRIC (AS APPROVED BY ENGINEER) WITH 6'-0" POST SPACING DOES NOT REQUIRE MESH SUPPORT FENCE.
  2. FILTER FABRIC SHALL BE WIRED DIRECTLY TO POST.

0227000



0227008



NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWINGS	5/08	JAB	
4	DESIGN MODIFICATION	6/07	JAB	
3	CONSTRUCTION	3/07	JAB	
2	PUBLIC WORKS SUBMITTAL	2/07	JAB	
1	STATE APPROVAL	01/07	JAB	

DESIGNED	H&S
DRAWN	H&S
CHECKED	JAB
PROJ. ENGR.	H&S

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIPIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY JOHN A. BOVE, SEAL NUMBER 19391

RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER

JOHN A. BOVE

**HAZEN AND SAWYER**

Environmental Engineers & Scientists

4011 WestChase Blvd, Raleigh, North Carolina 27607

**CITY OF RALEIGH**

**DEPARTMENT OF SOLID WASTE SERVICES**

**WILDERS GROVE SOLID WASTE TRANSFER FACILITY**

**820 CORPORATION PARKWAY, RALEIGH, NC**

**MISCELLANEOUS STANDARD DETAILS**

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE JANUARY 2007

H & S JOB NUMBER 30579

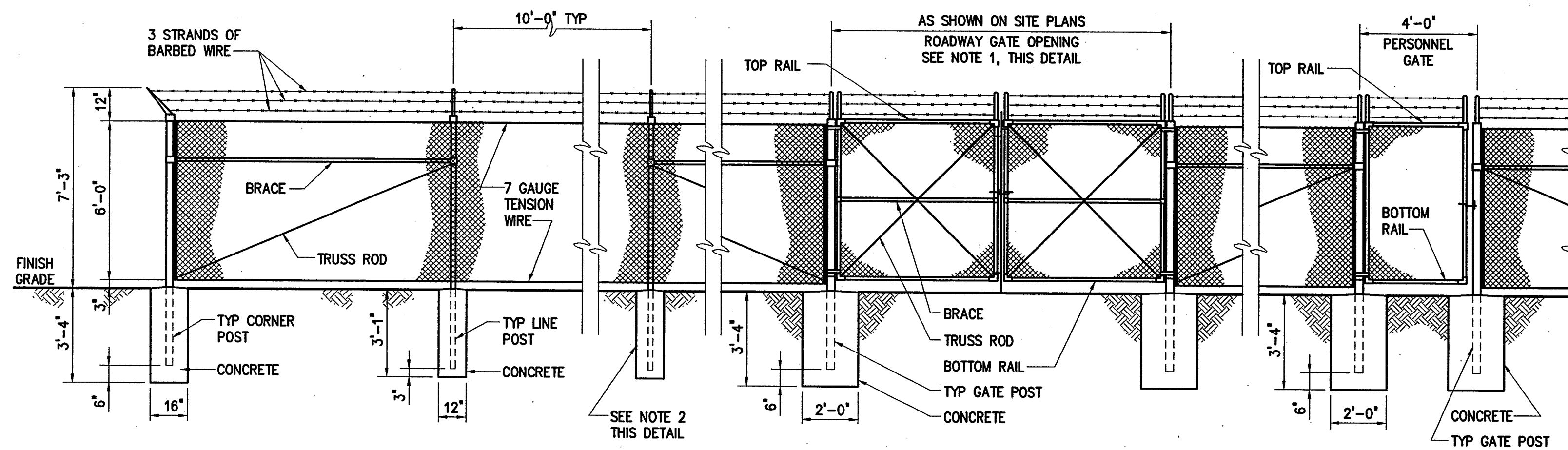
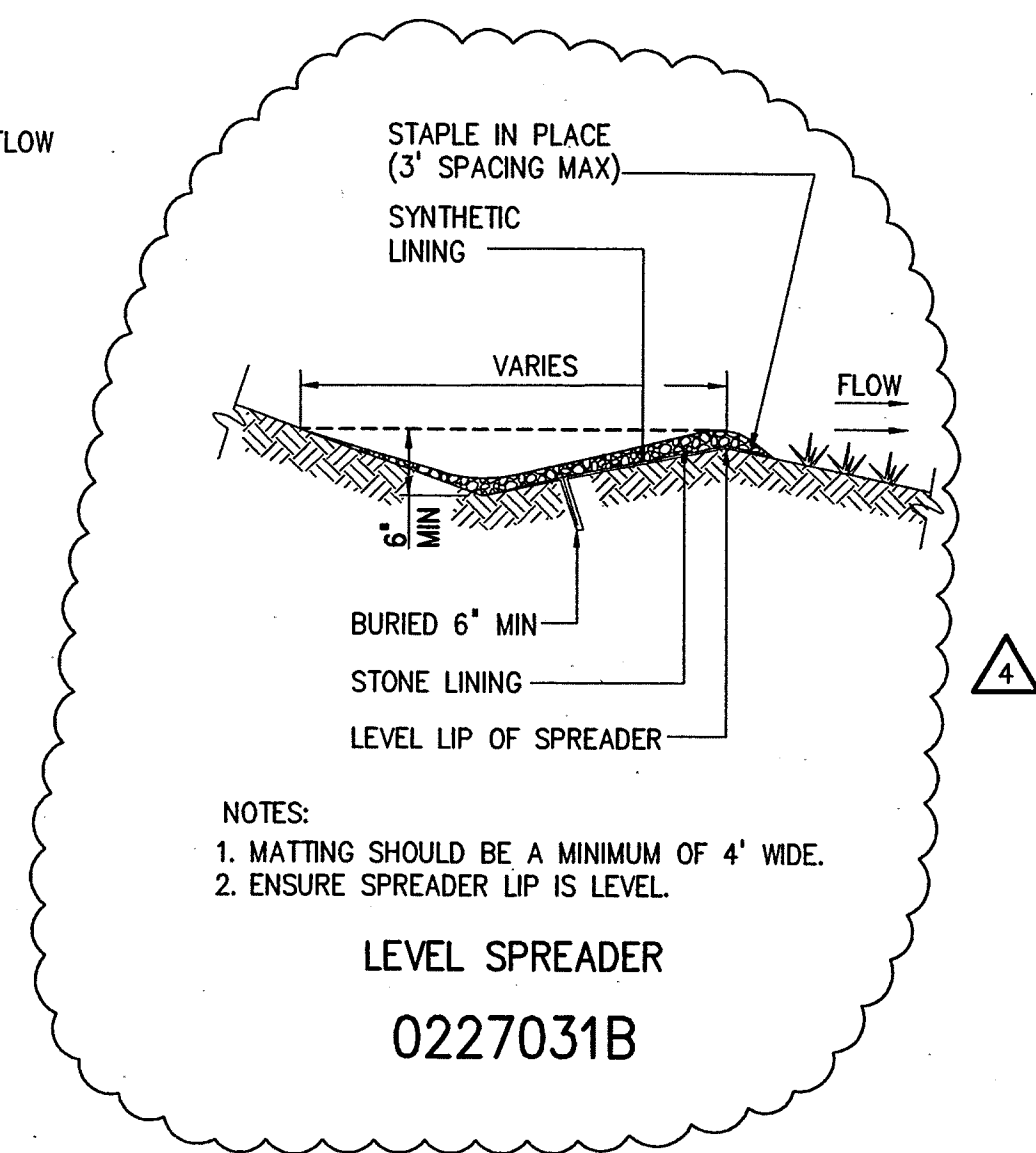
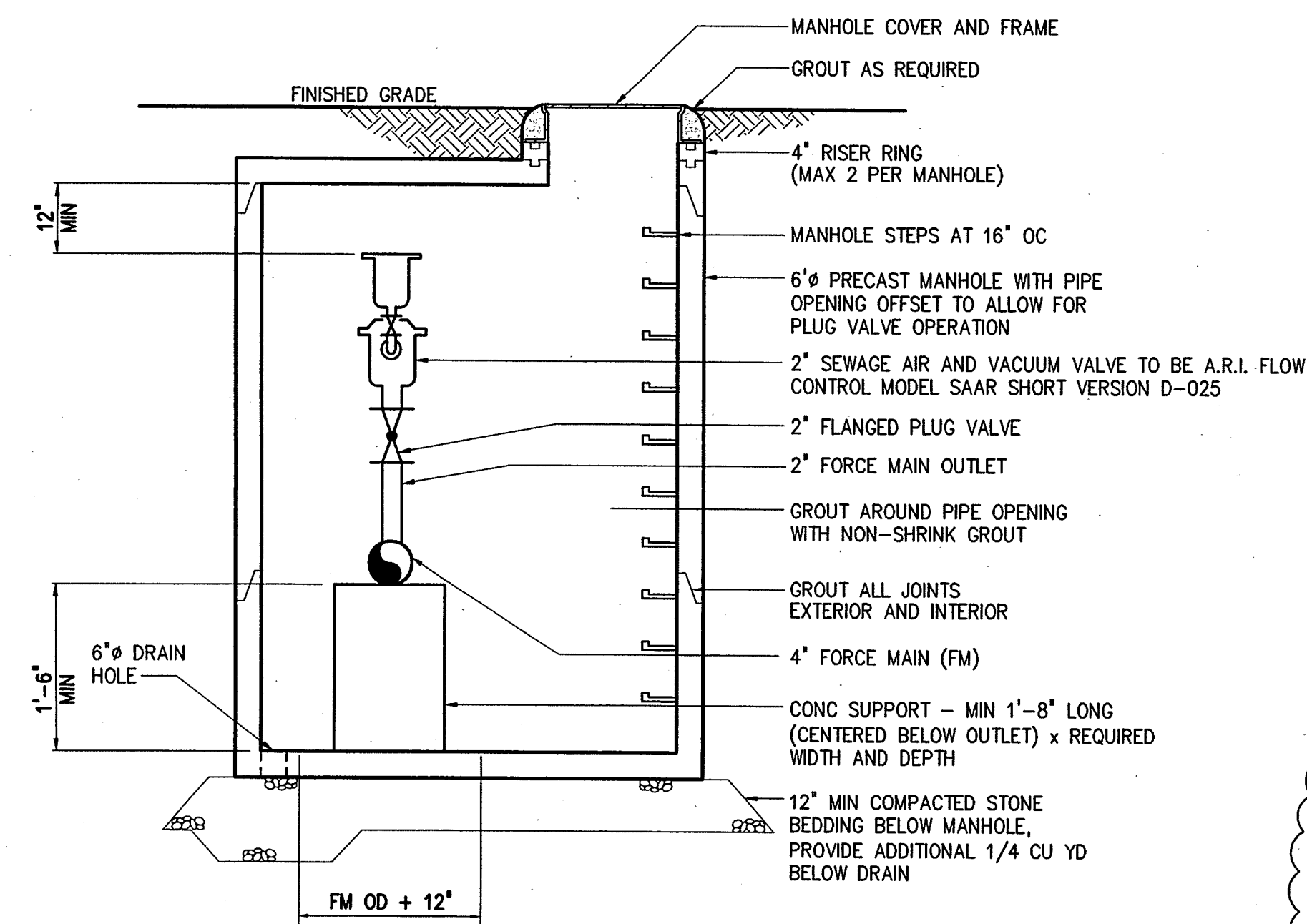
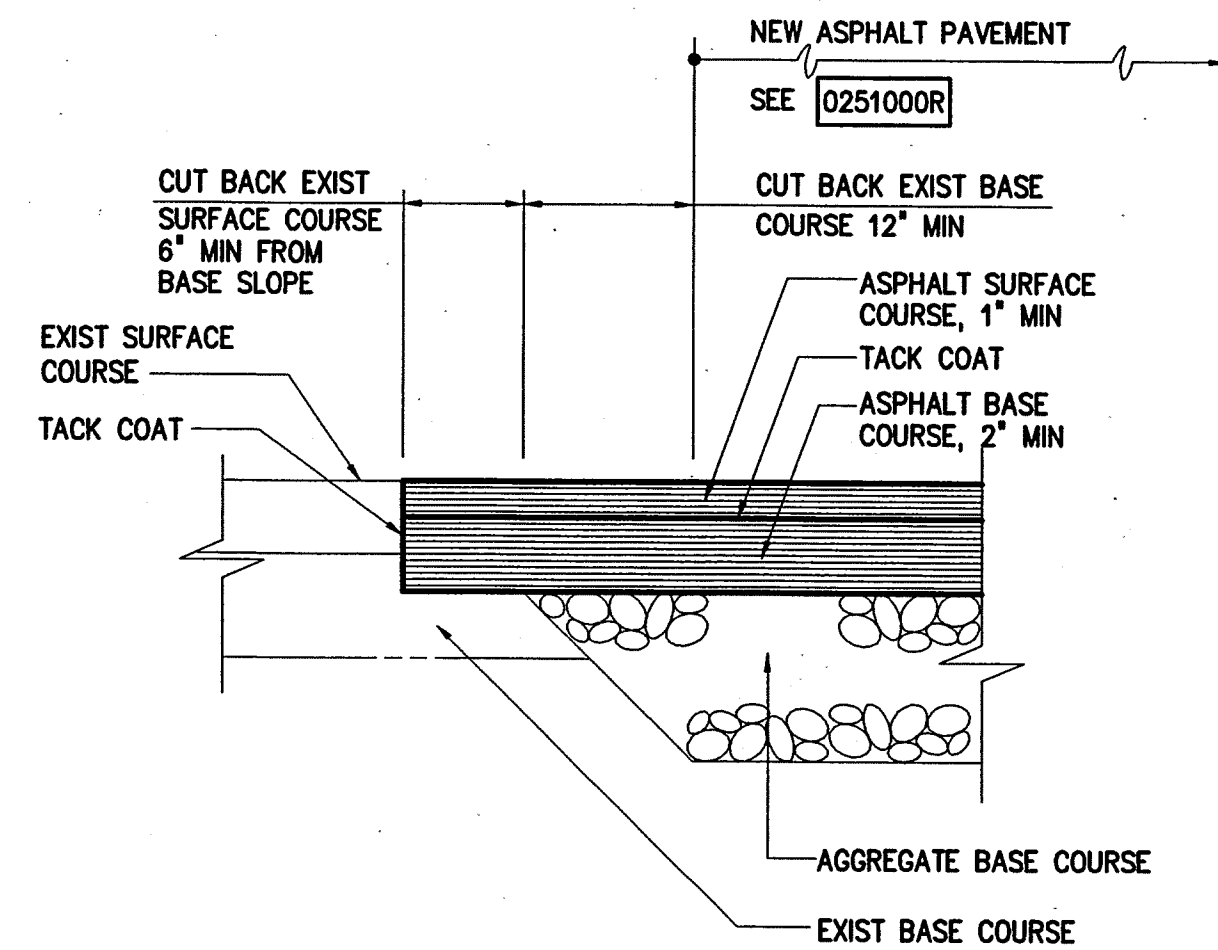
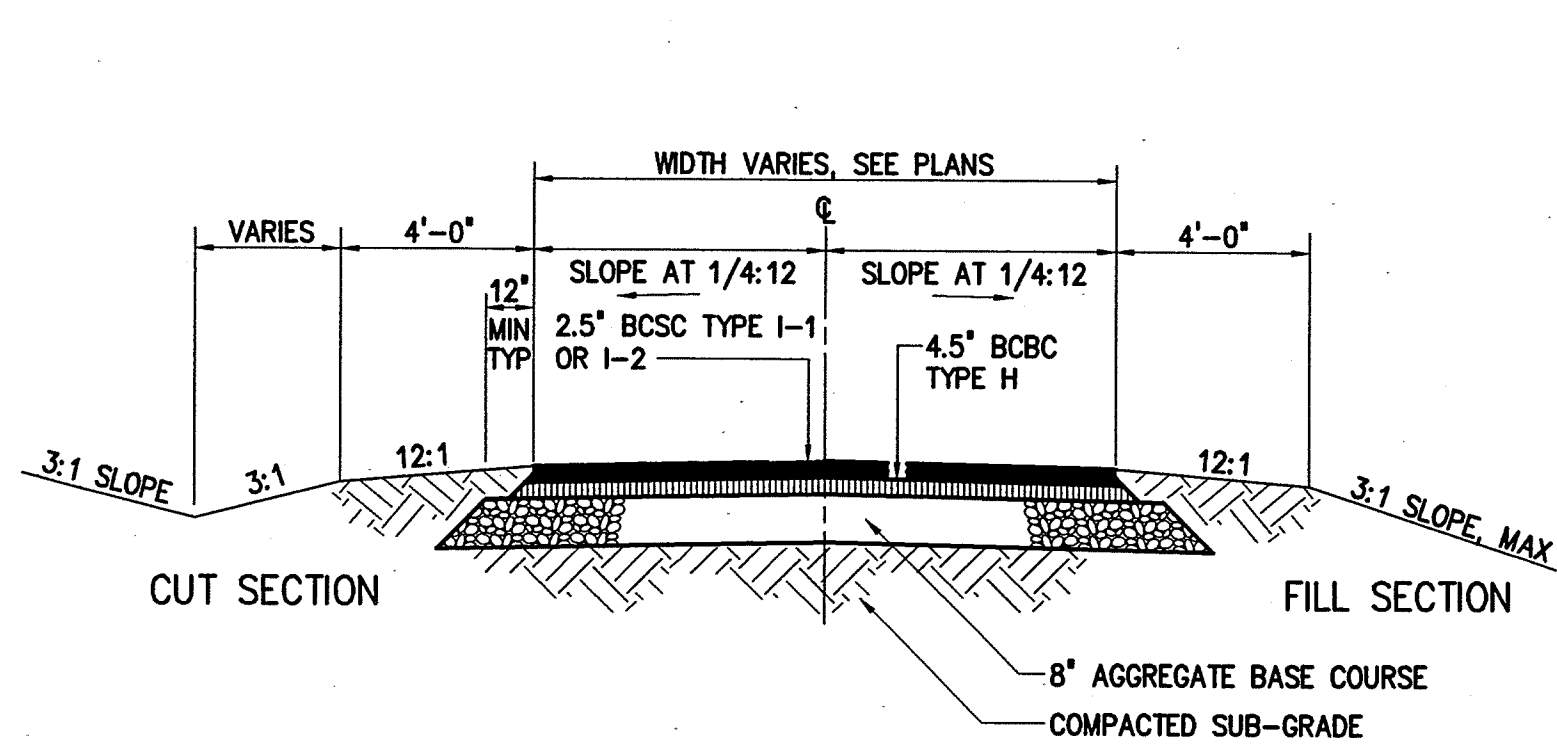
CONTRACT NUMBER 1A

DRAWING NUMBER D1

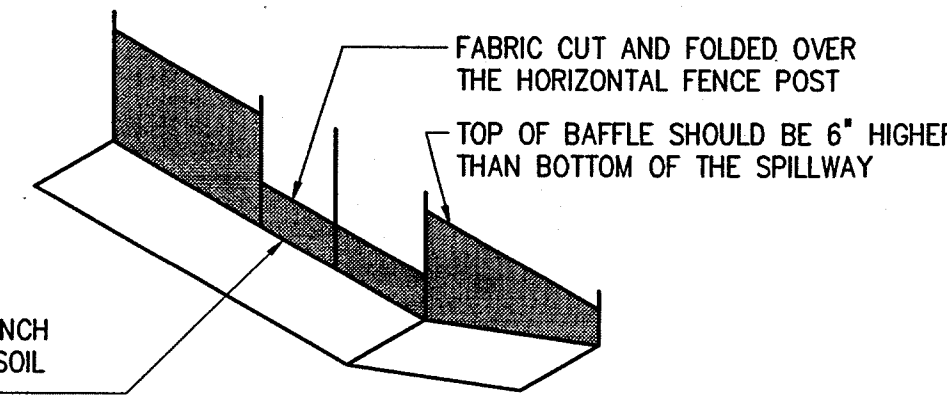
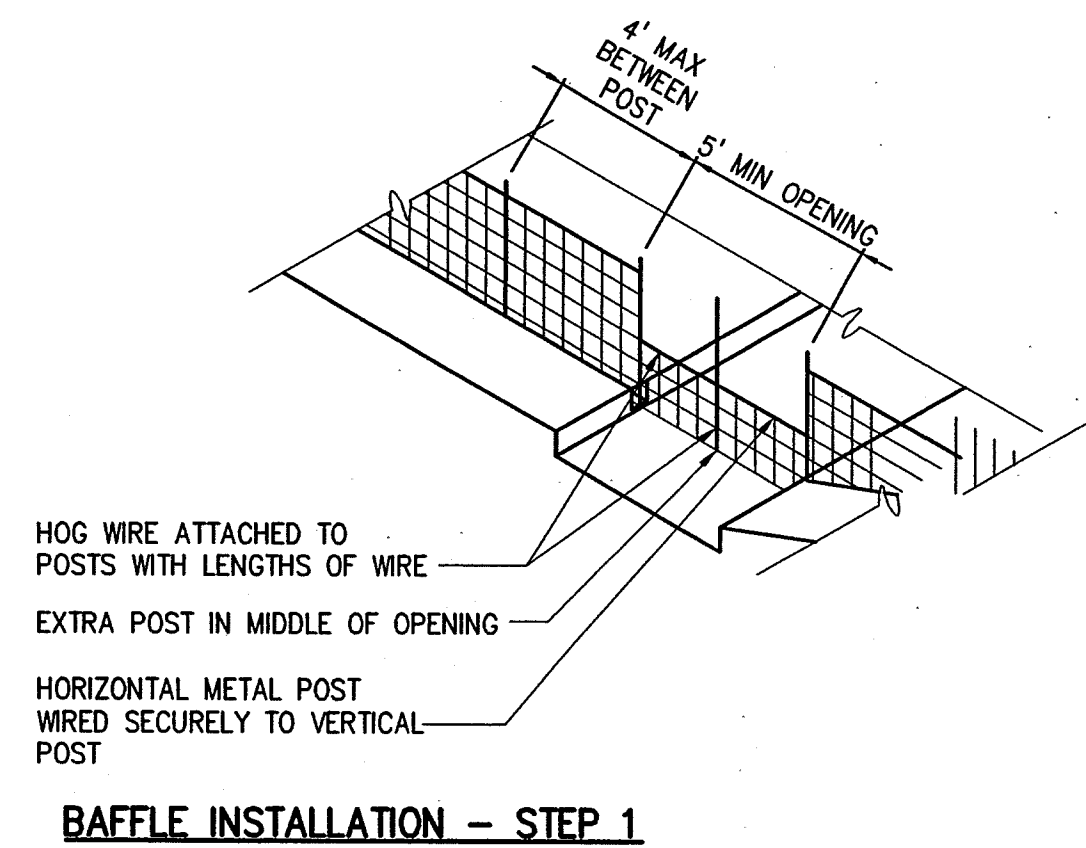
H&S FLAT FILE NO.

RECORD DRAWING



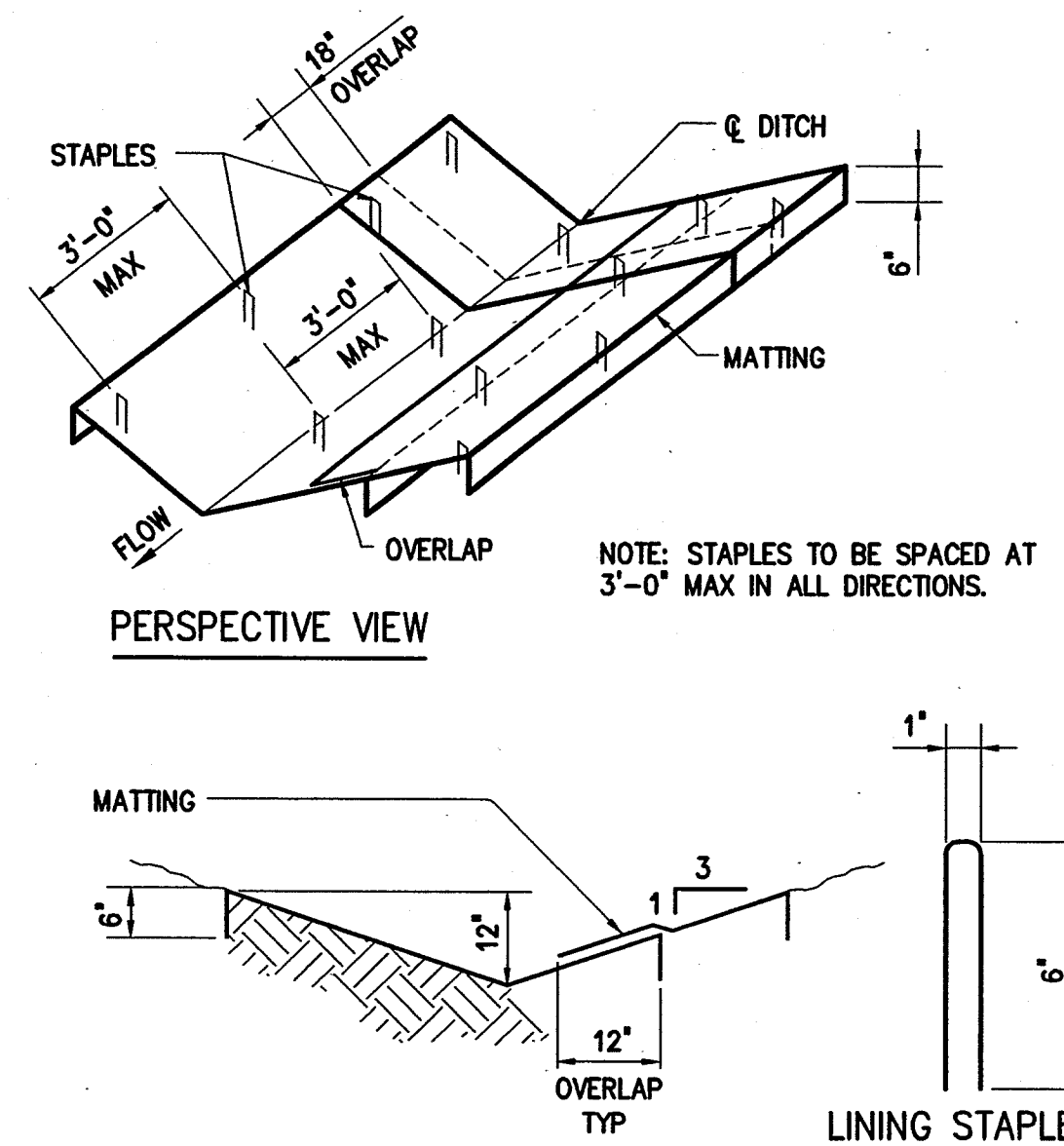


- NOTES: 1. PROVIDE LATCHING DEVICES TO HOLD GATES IN OPEN POSITION.  
2. IF ROCK IS ENCOUNTERED WHEN SETTING POSTS, DRILL HOLES 4" INCHES LARGER IN DIAMETER THAN POSTS AND BACKFILL TO GRADE WITH CLASS "B" CONCRETE.

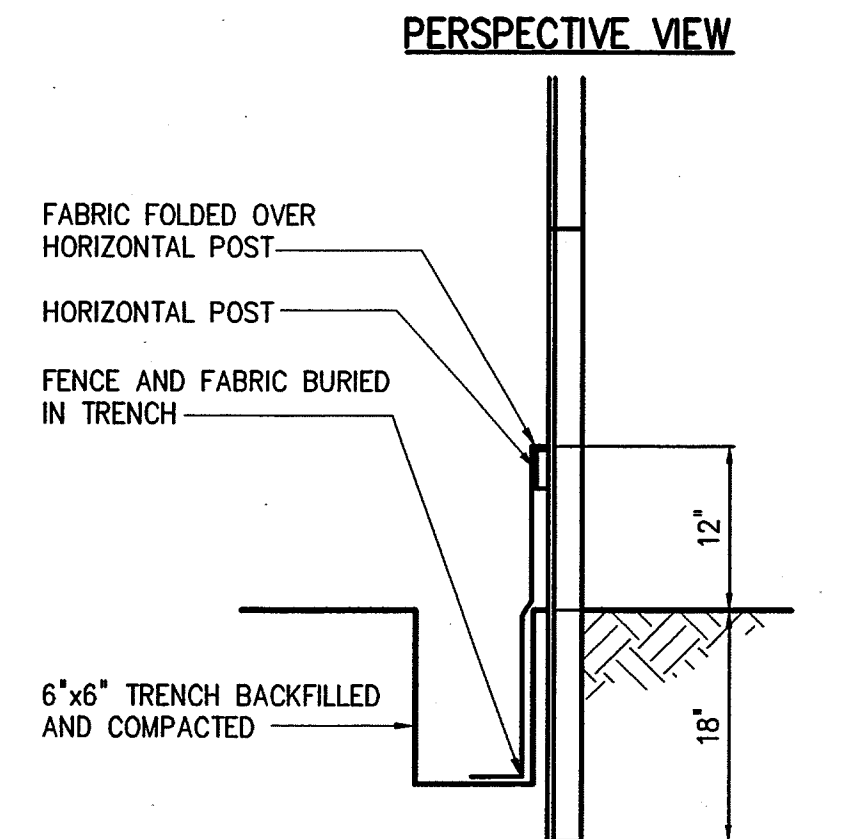
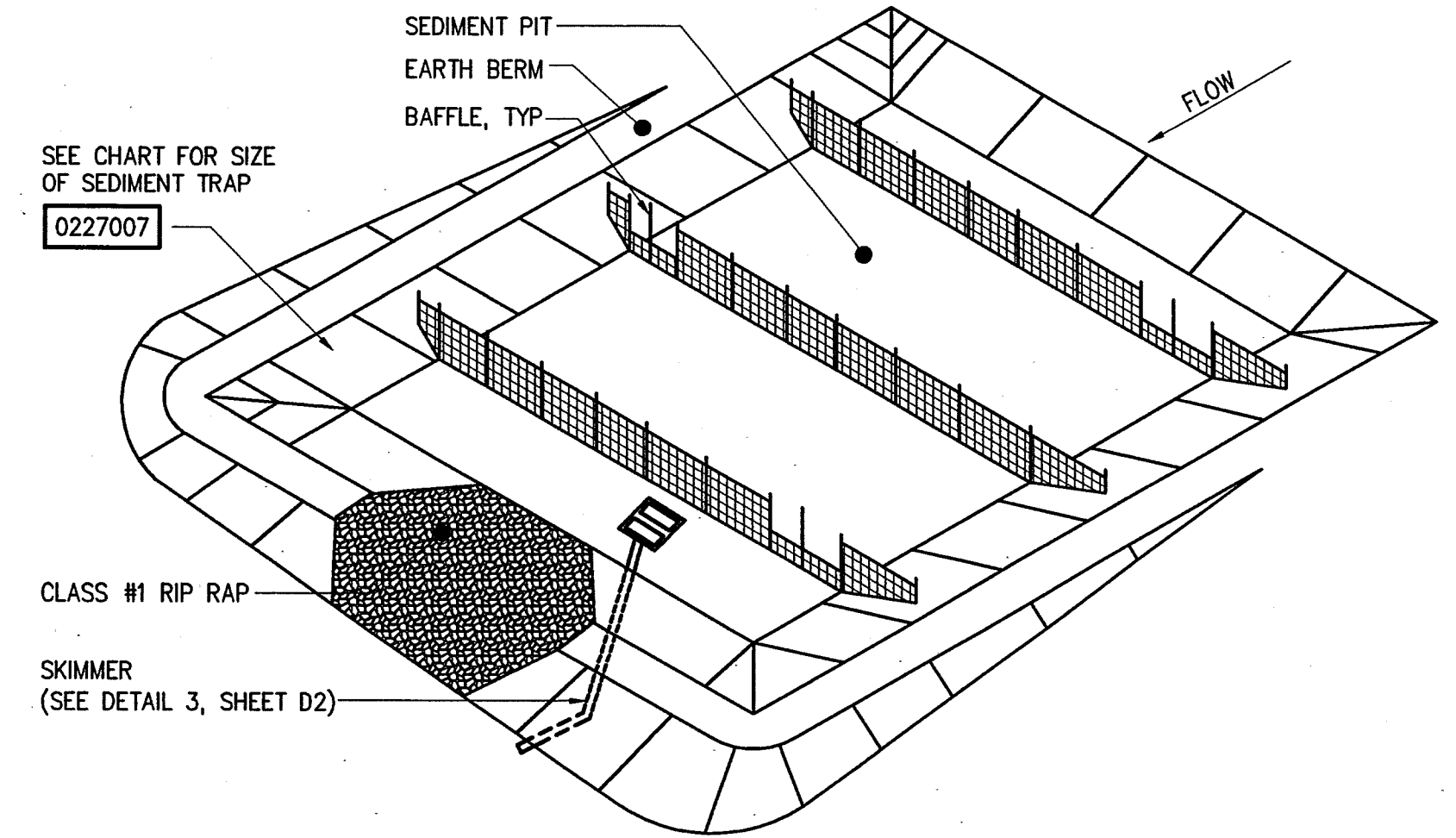


- NOTES:**
1. DRIVE STEEL FENCE POST AT LEAST 18" INTO SOLID GROUND.
  2. WOOD POSTS ARE NOT ACCEPTABLE.
  3. USE STAPLES 12" APART TO ATTACH FABRIC TO "HOG WIRE".
  4. BAFFLE SPACED AS PER APPROVED PLAN.

**TEMPORARY SEDIMENT TRAP BAFFLE DETAIL**  
DETAIL 2  
NTS EC2

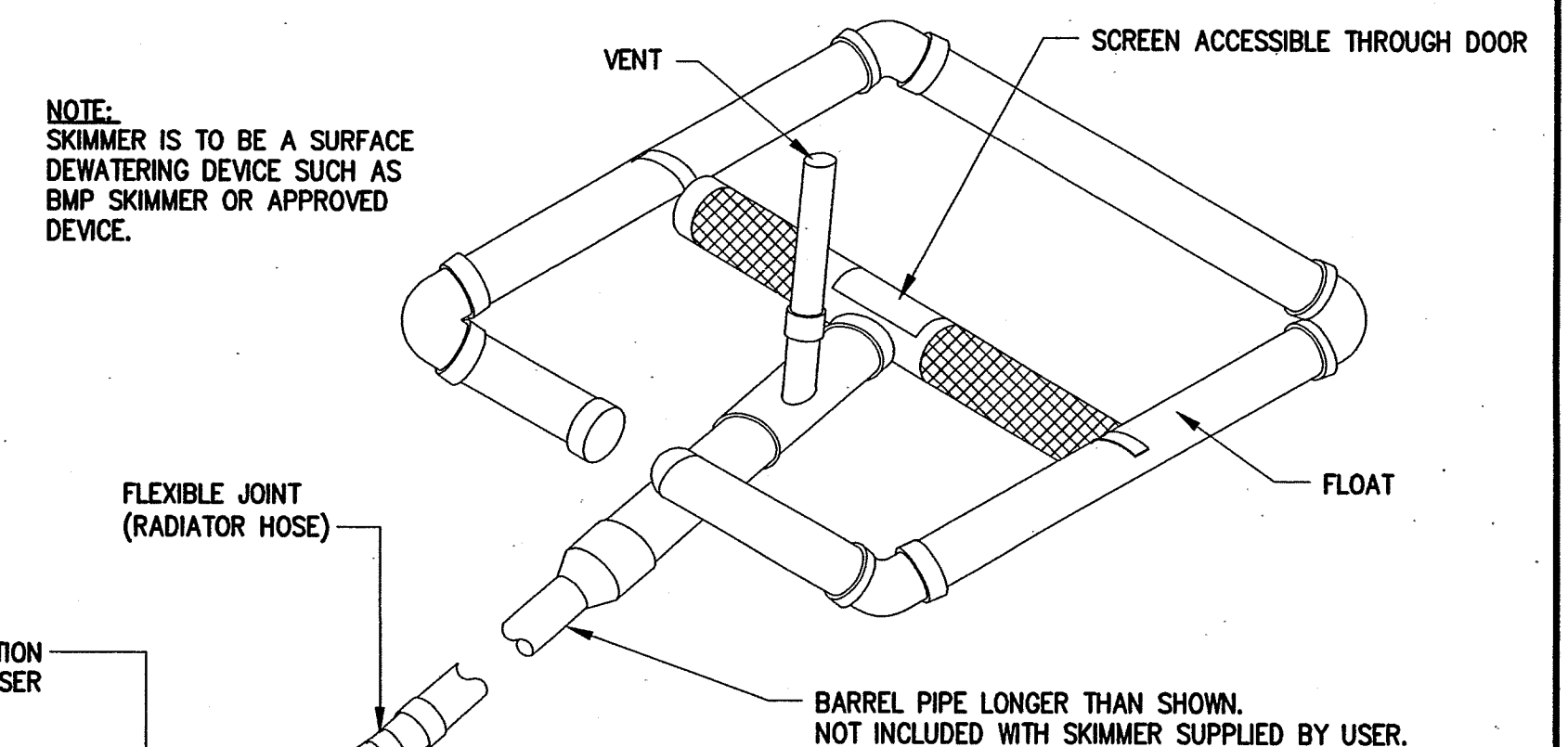


**RECM AND TRM INSTALLATION**  
0227014



SEDIMENT BASIN DATA				
BASIN NUMBER	BASIN WIDTH (FT)	BASIN LENGTH (FT)	BASIN DEPTH (FT)	WEIR LENGTH (FT)
(A)	32	310	3	10
(B)	82	164	3	12
(C)				
(D)				
(E)				
(F)				
(G)				
(H)				

0227007

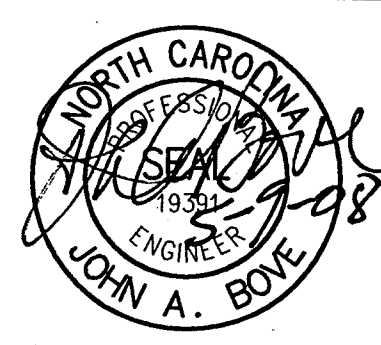


**DETAIL 3**  
N.T.S. D2

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWINGS	5/08	JAB	
4	DESIGN MODIFICATION	6/07	JAB	
3	CONSTRUCTION	3/07	JAB	
2	PUBLIC WORKS SUBMITTAL	2/07	JAB	
1	STATE APPROVAL	01/07	JAB	

DESIGNED: H & S  
DRAWN: H & S  
CHECKED: H & S  
PROJ. ENGR. H & S

**RECORD DRAWING**  
THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER



**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

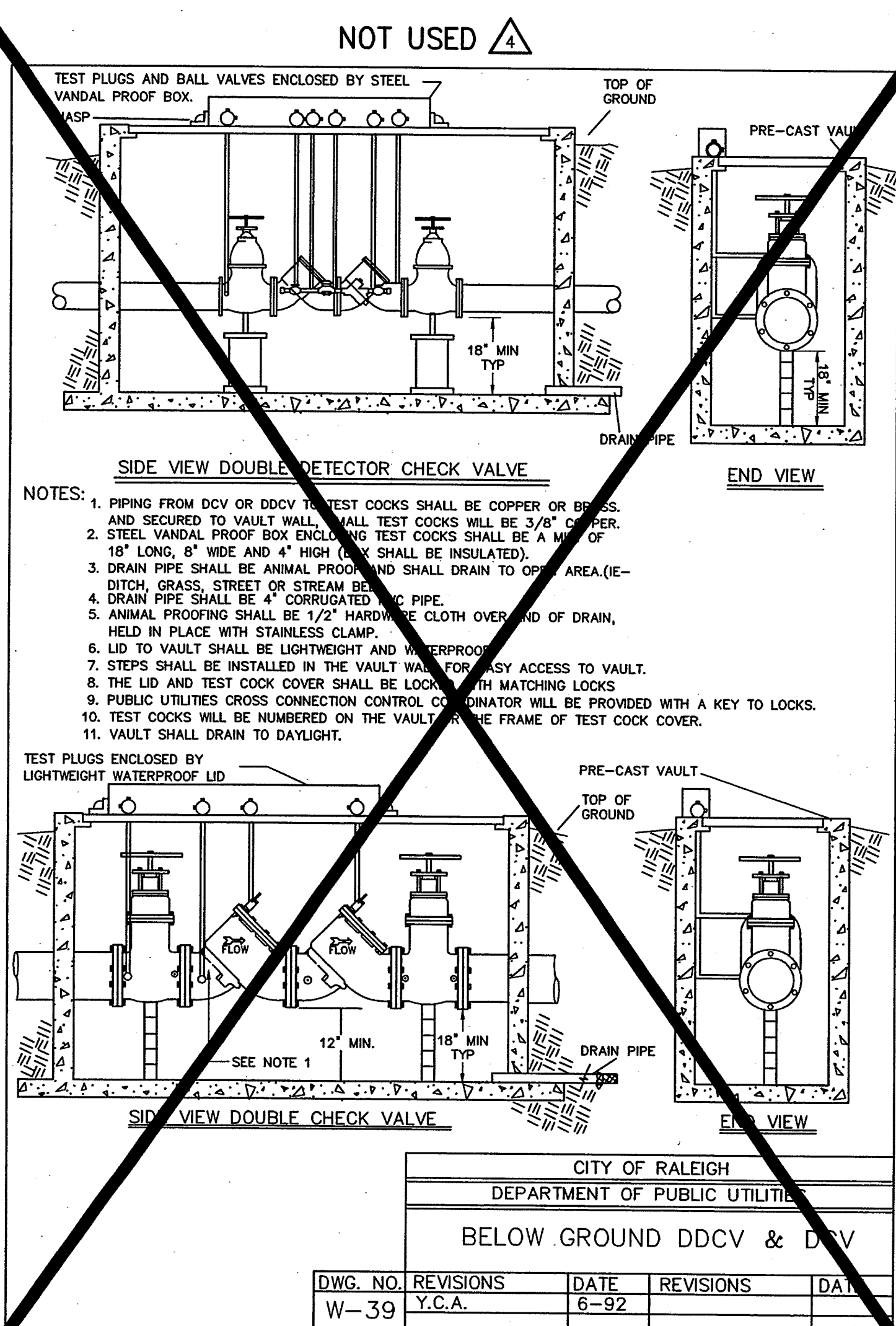
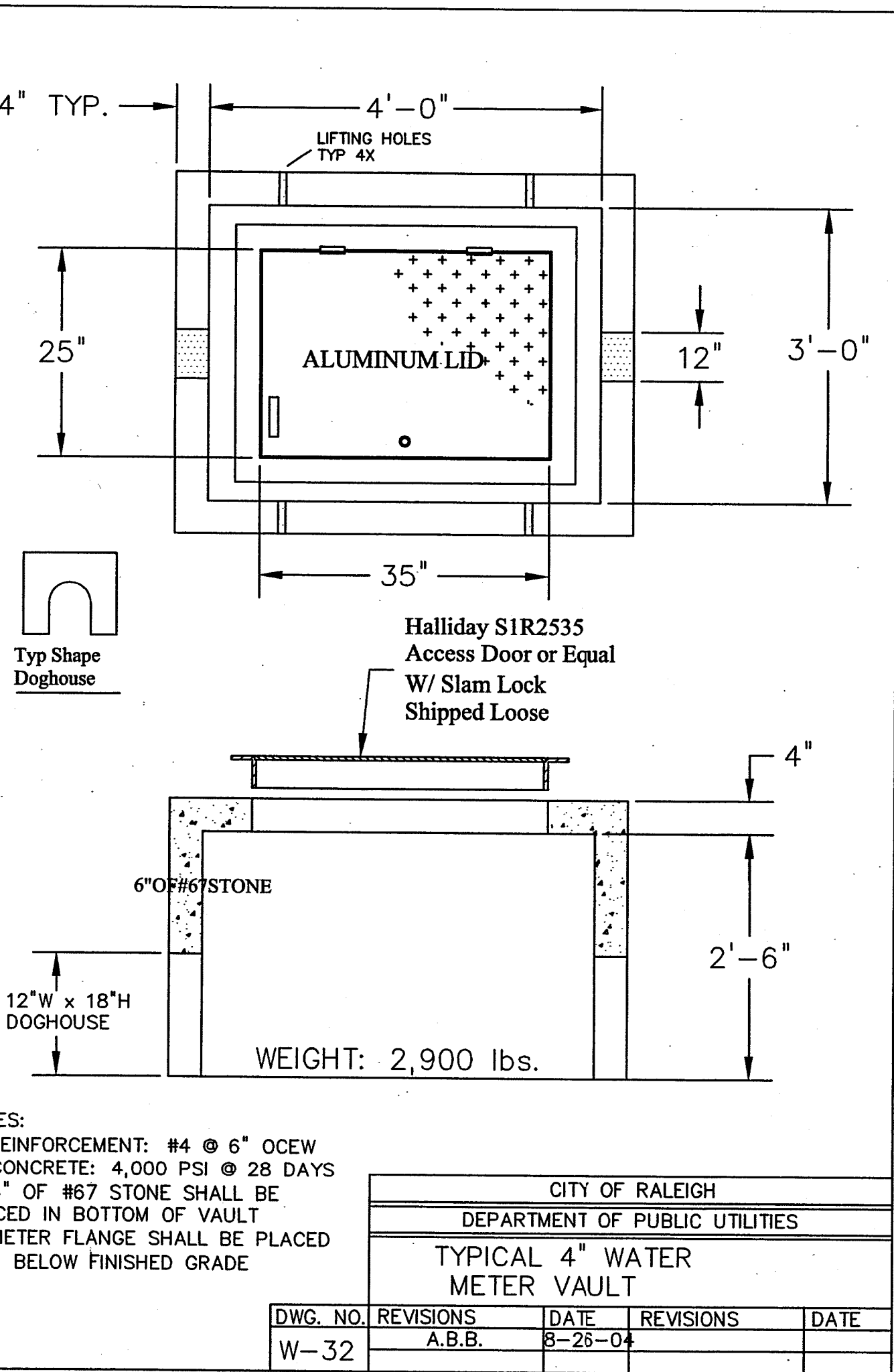
**CITY OF RALEIGH**  
**DEPARTMENT OF SOLID WASTE SERVICES**  
**WILDERS GROVE SOLID WASTE TRANSFER FACILITY**  
**820 CORPORATION PARKWAY, RALEIGH, NC**

MISCELLANEOUS STANDARD DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE: JANUARY 2007
H & S JOB NUMBER: 30579	CONTRACT NUMBER: 1A
DRAWING NUMBER: D2	H & S FLAT FILE NO.:

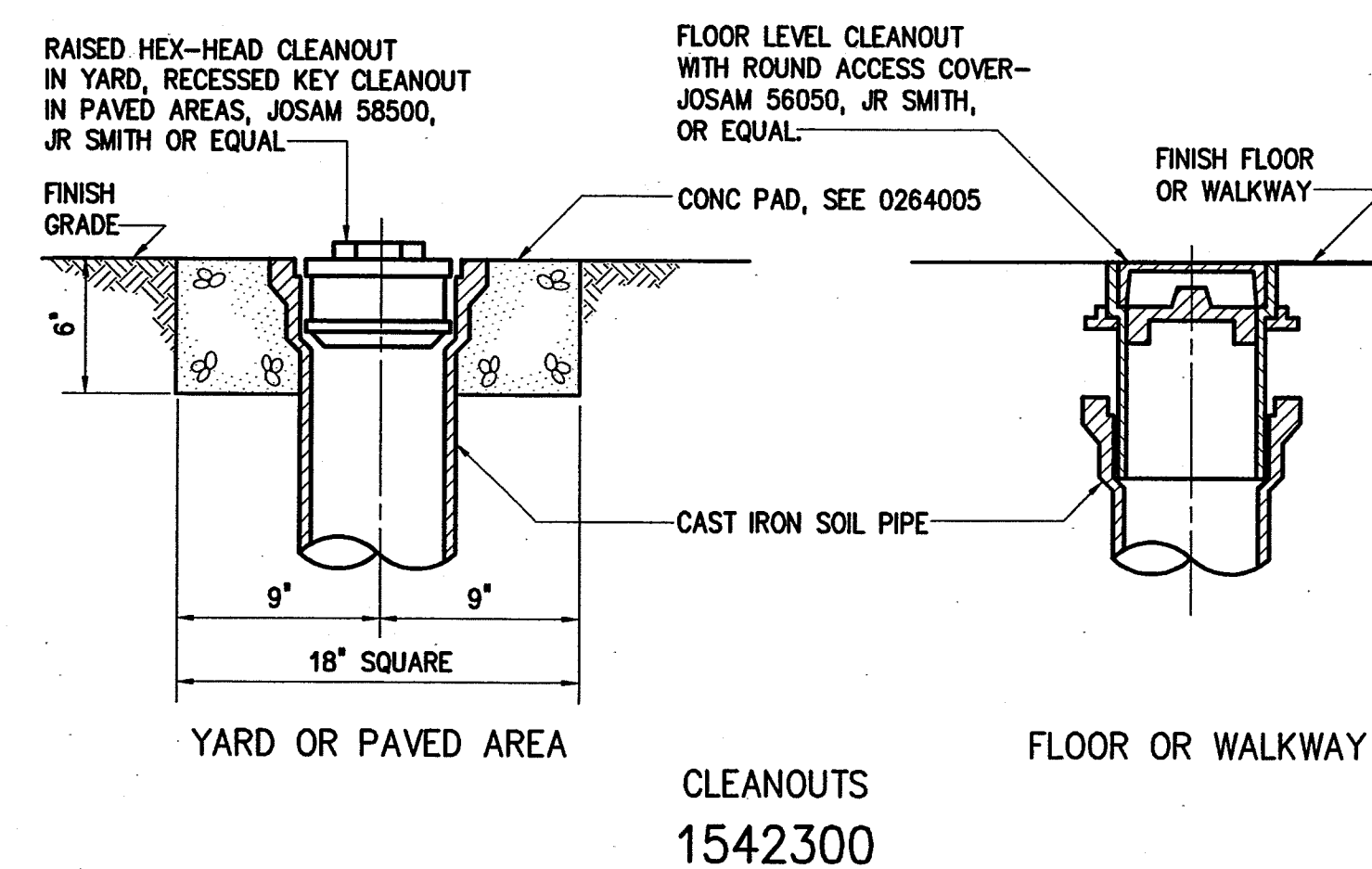
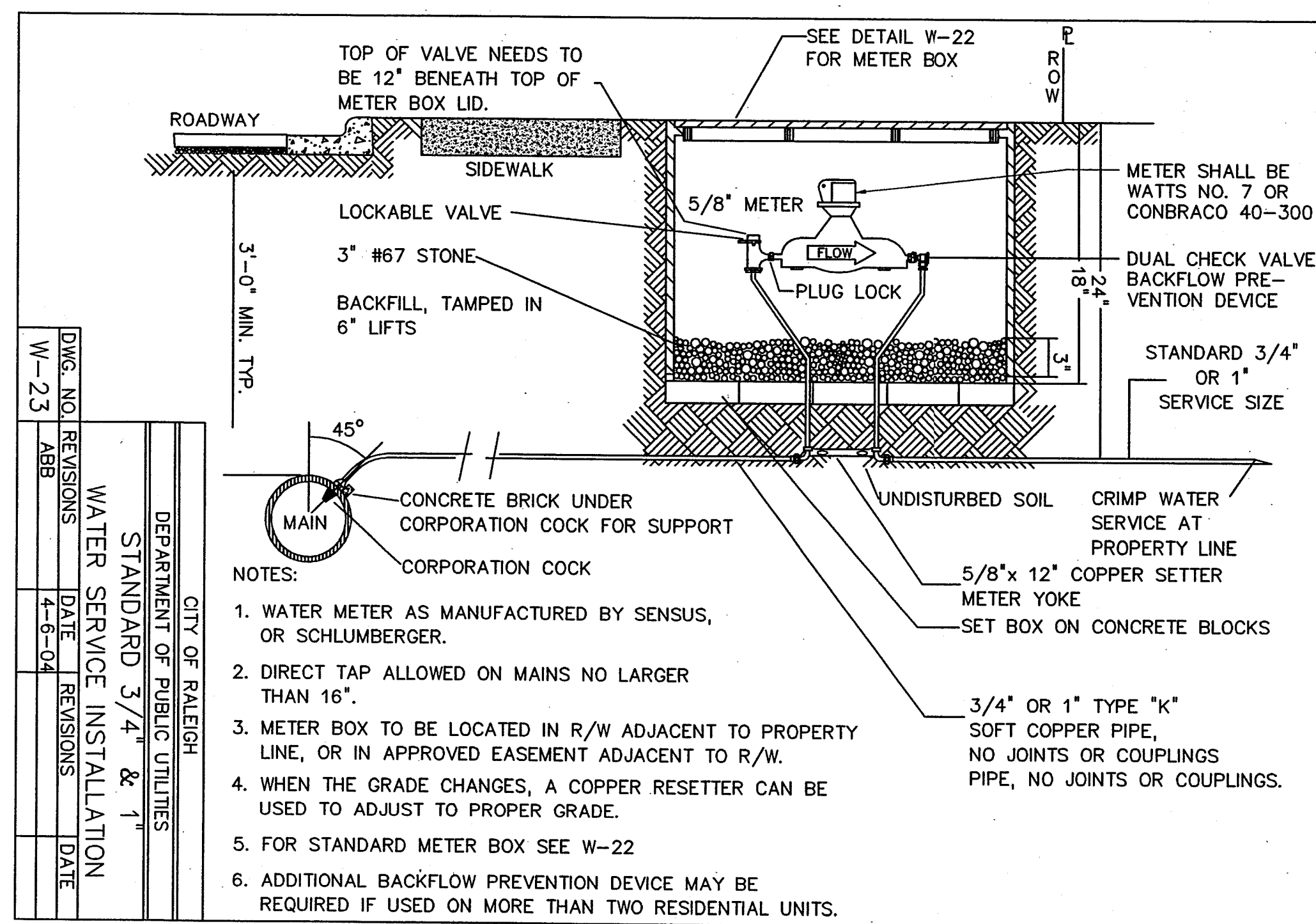






NOTES:

1. DOUBLE CHECK VALVE ASSEMBLY SHALL BE AMES-200, CONBRACO 40-100-10G(02-06), FEBCO 850, WATTS 709, OR WILKINS 350.

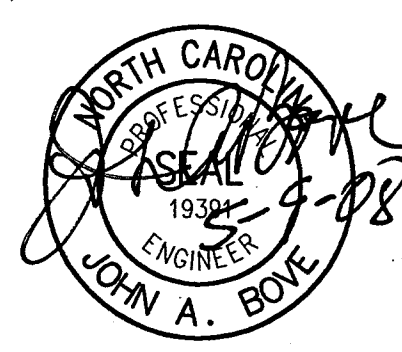


				DESIGNED	H & S
				DRAWN	H & S
5	RECORD DRAWINGS	5/08	JAB	CHECKED	<i>[Signature]</i>
4	BUILDING PERMIT REVIEW COMMENTS	11/07	JAB	PROJ. ENGR.	JAB
3	CONSTRUCTION	3/07	JAB		
2	PUBLIC WORKS SUBMITTAL	2/07	JAB		
1	STATE APPROVAL	01/07	JAB		
NO.	ISSUED FOR	DATE	BY	APPROVED	

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY ROBERT S.  
DIOFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY JOHN A.  
BOVE, SEAL NUMBER 19391

**RECORD DRAWING**  
THIS DRAWING HAS BEEN MODIFIED  
TO REFLECT FIELD CHANGES  
REPORTED BY THE CONTRACTOR  
ANOTHER PARTY, BUT NOT VERIFIED  
BY THE CERTIFYING ENGINEER



**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

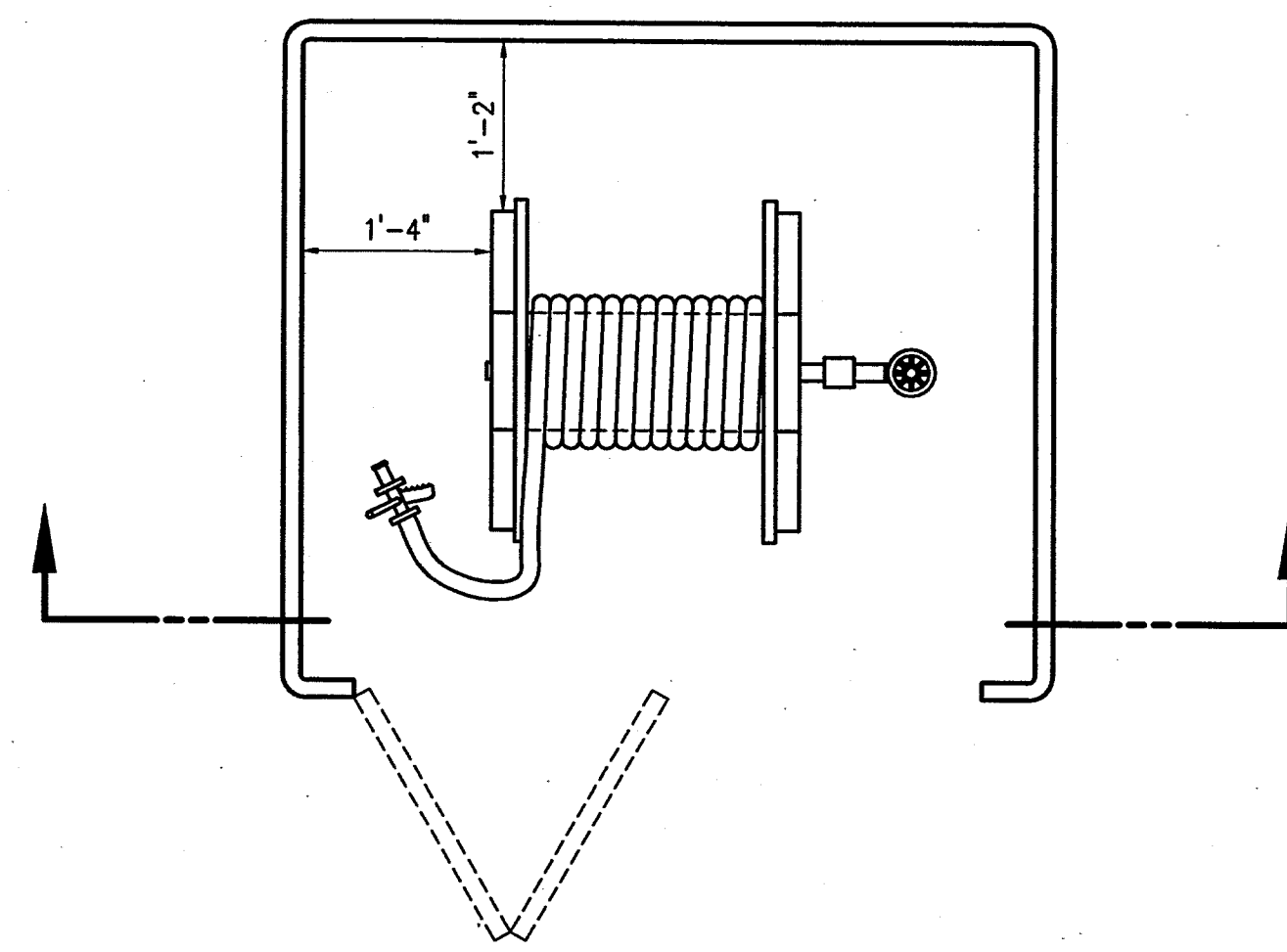
**CITY OF RALEIGH**  
**DEPARTMENT OF SOLID WASTE SERVICES**  

---

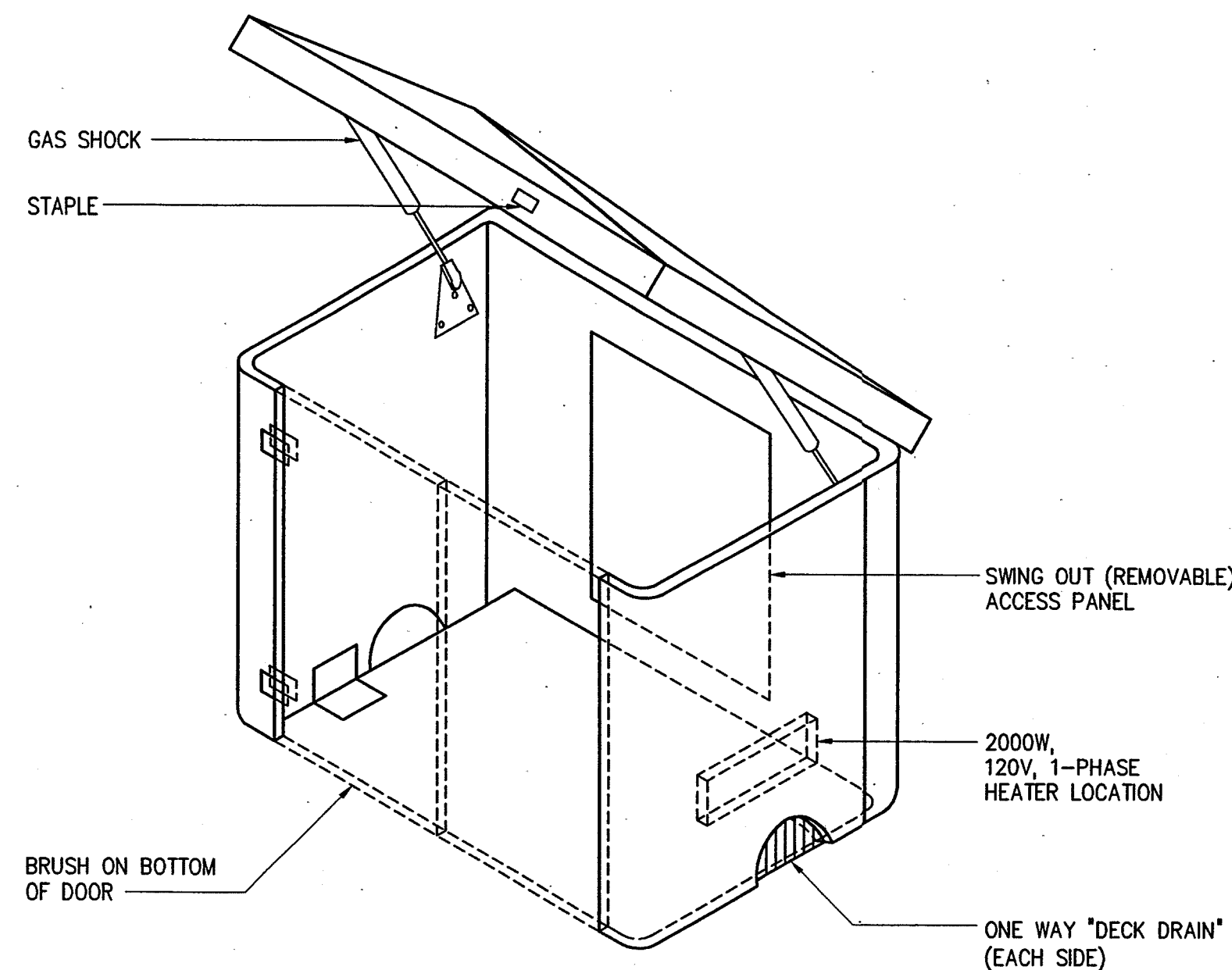
**WILDERS GROVE SOLID WASTE**  
**TRANSFER FACILITY**  
**820 CORPORATION PARKWAY, RALEIGH, NC**

## MISCELLANEOUS STANDARD DETAILS

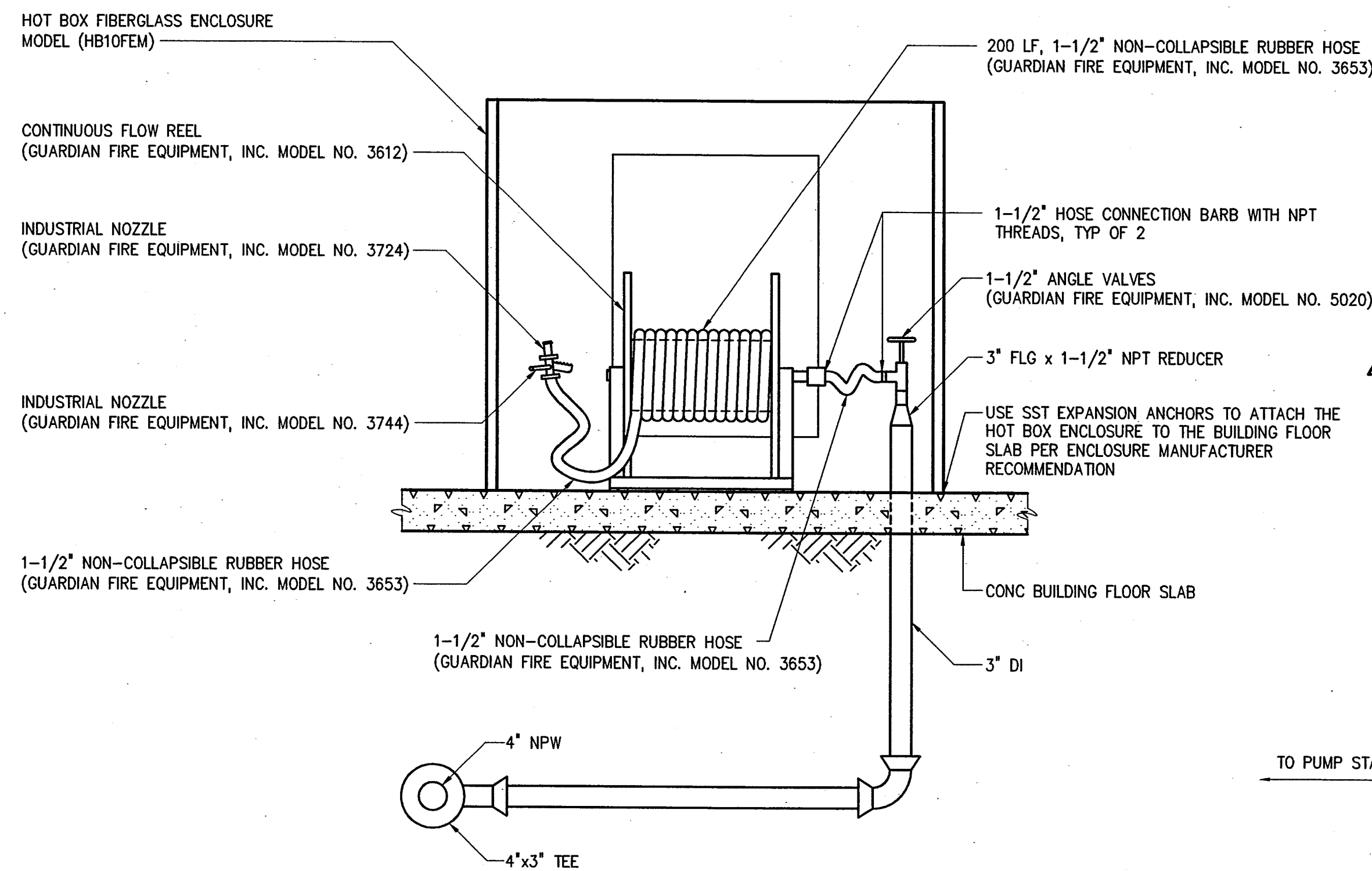
THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE JANUARY 2007	
	H & S JOB NUMBER 30579	
	CONTRACT NUMBER 1A	DRAWING NUMBER D4
	H&S FLAT FILE NO. .	



PLAN



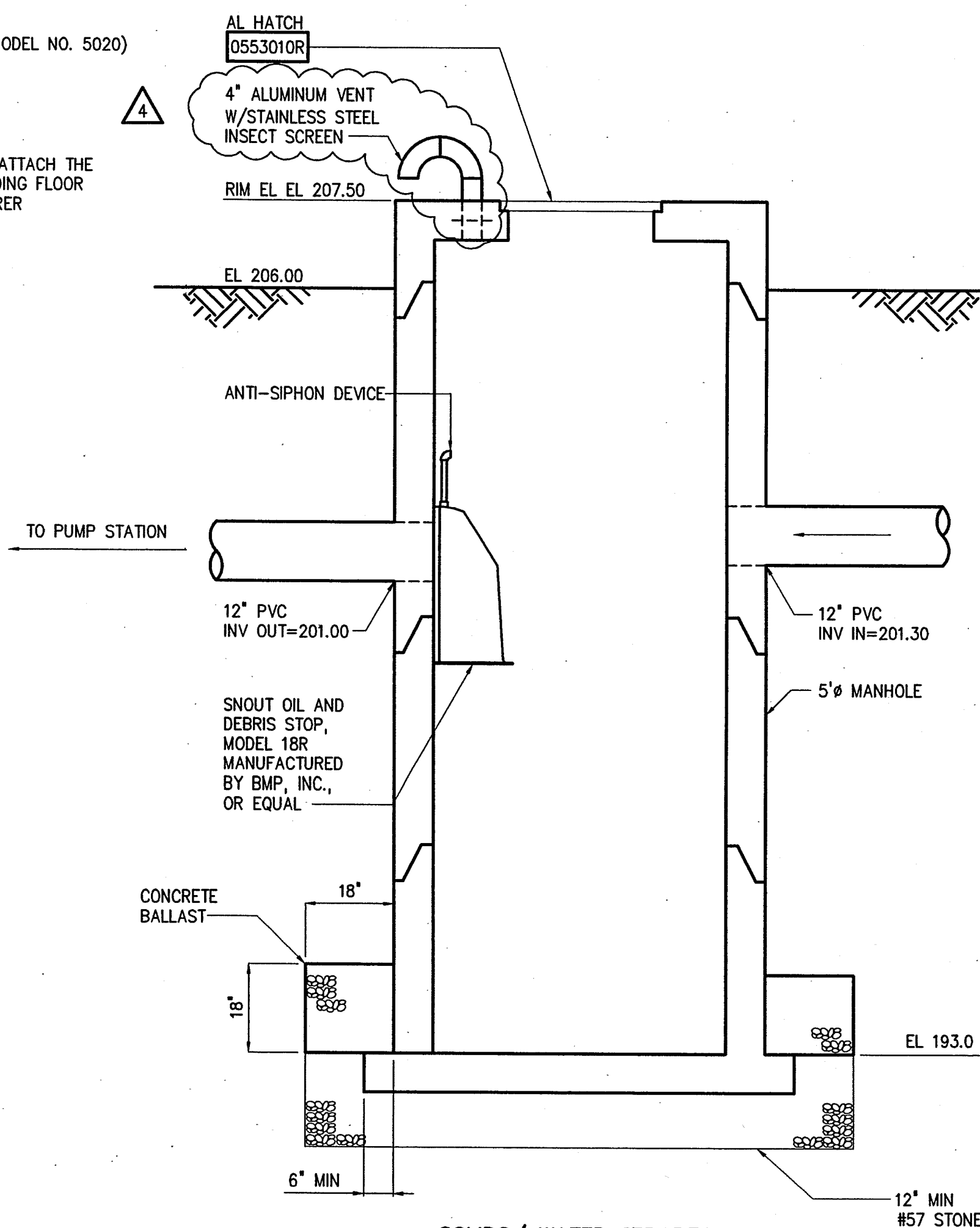
NOTE:  
SIGNS STATING "FIRE HOSE" SHALL BE  
INSTALLED WITHIN 5- FEET OF EACH  
ENCLOSURE AND MOUNTED.



SECTION

FIRE HOSE REEL ENCLOSURE

DETAIL	1
NTS	M1

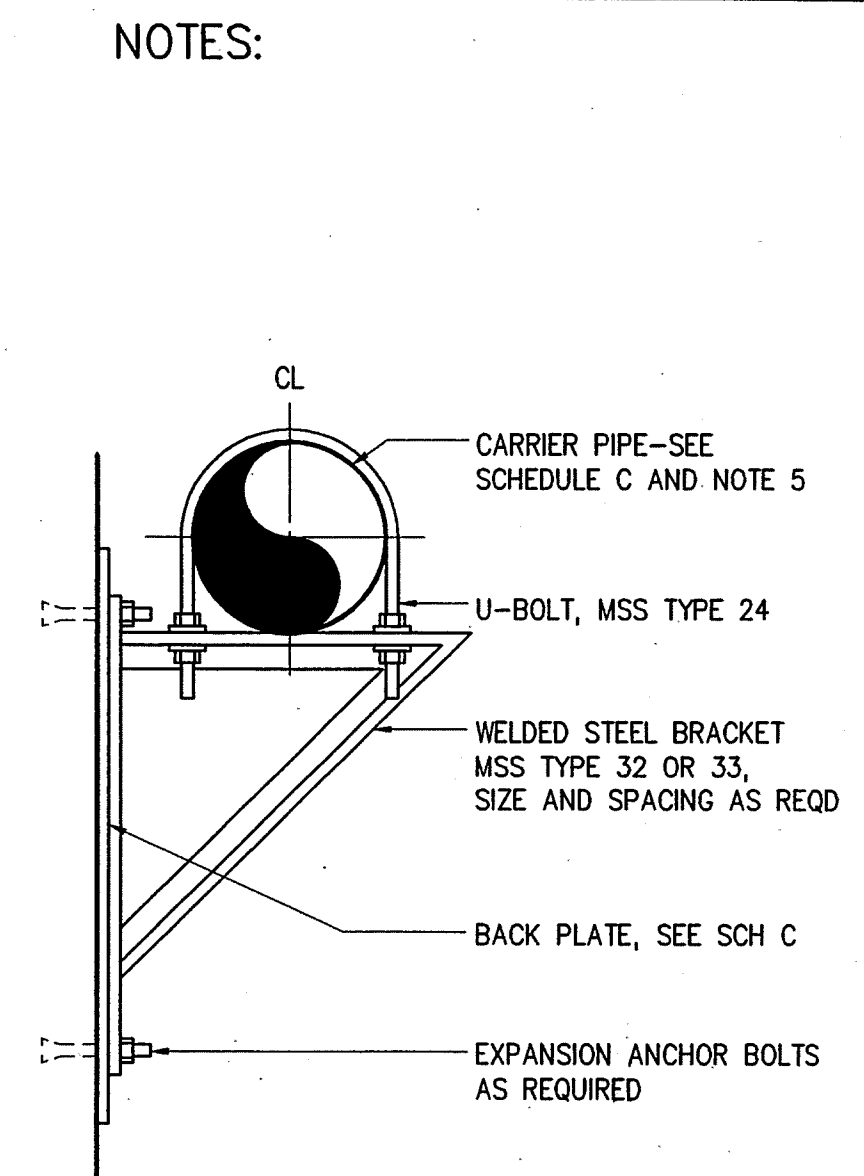


SOLIDS/ WATER SEPARTOR

DETAIL	2
1/2"=1'-0"	M1

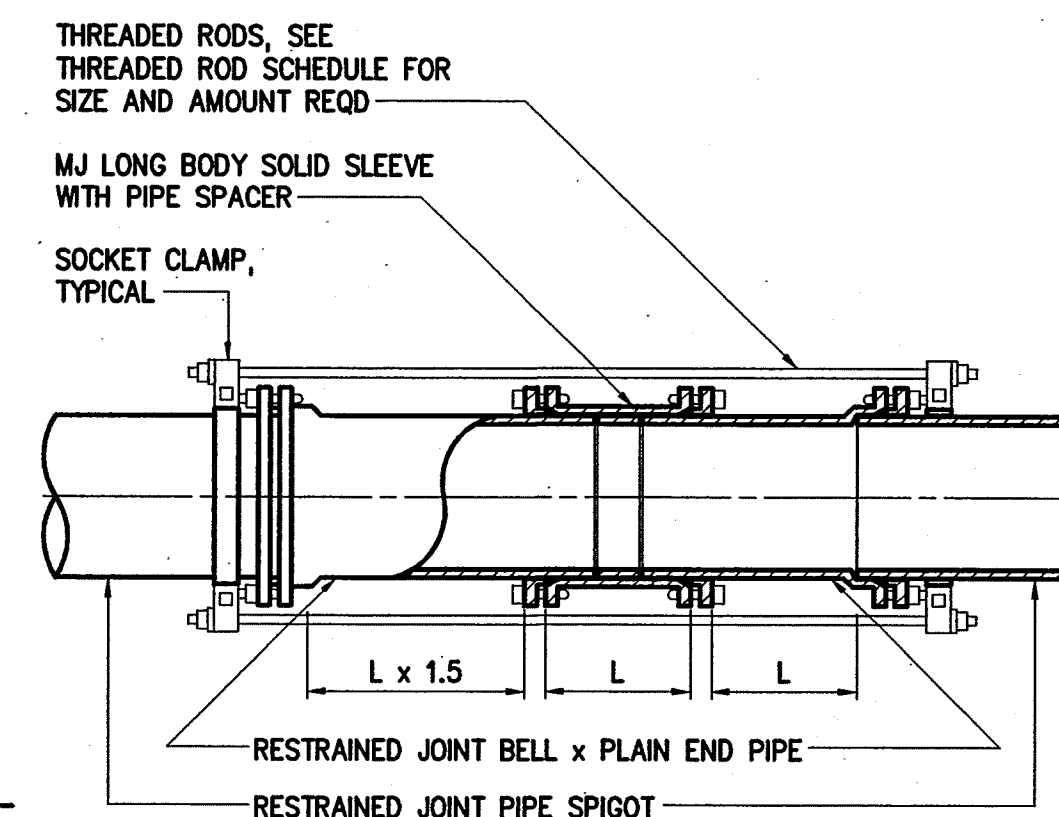
SCHEDULE C						
SUPPORT RODS AND BRACKET SPACING (FOR STANDARD WEIGHT PIPE)						
PIPE SIZE (INCHES)	BACK PLATE (INCHES)	MINIMUM ROD Ø (INCHES)		MAX SPAN IN FEET (SEE NOTE 8)		
		PROCESS PIPING	STEEL AIR PIPING	COPPER	PLASTIC	STEEL DIP (SEE NOTE 7)
UP TO 1	SEE NOTE 4	3/8	3/8	5	5	6
1 1/4-2	"	3/8	3/8	8	5	10
2 1/2-3 1/2	"	3/8	3/8	8	5	12
4-5	"	1/2	3/8	-	5	14
6	"	5/8	3/8	-	5	15
8-12	"	3/4	1/2	-	5	15
14-16	"	7/8	1/2	-	5	15
18	"	1	1/2	-	5	18
20-24	"	1 1/4	5/8	-	5	18

1509412

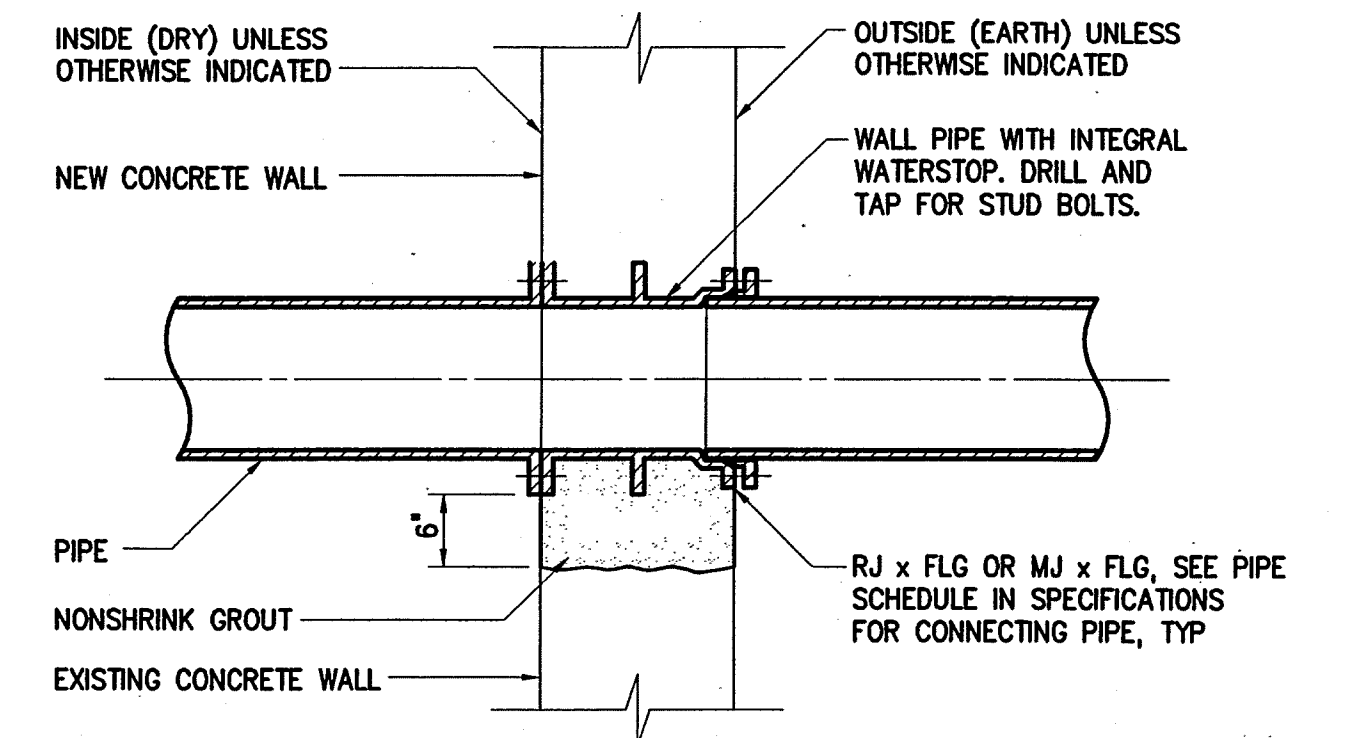


PIPE SUPPORT BRACKET

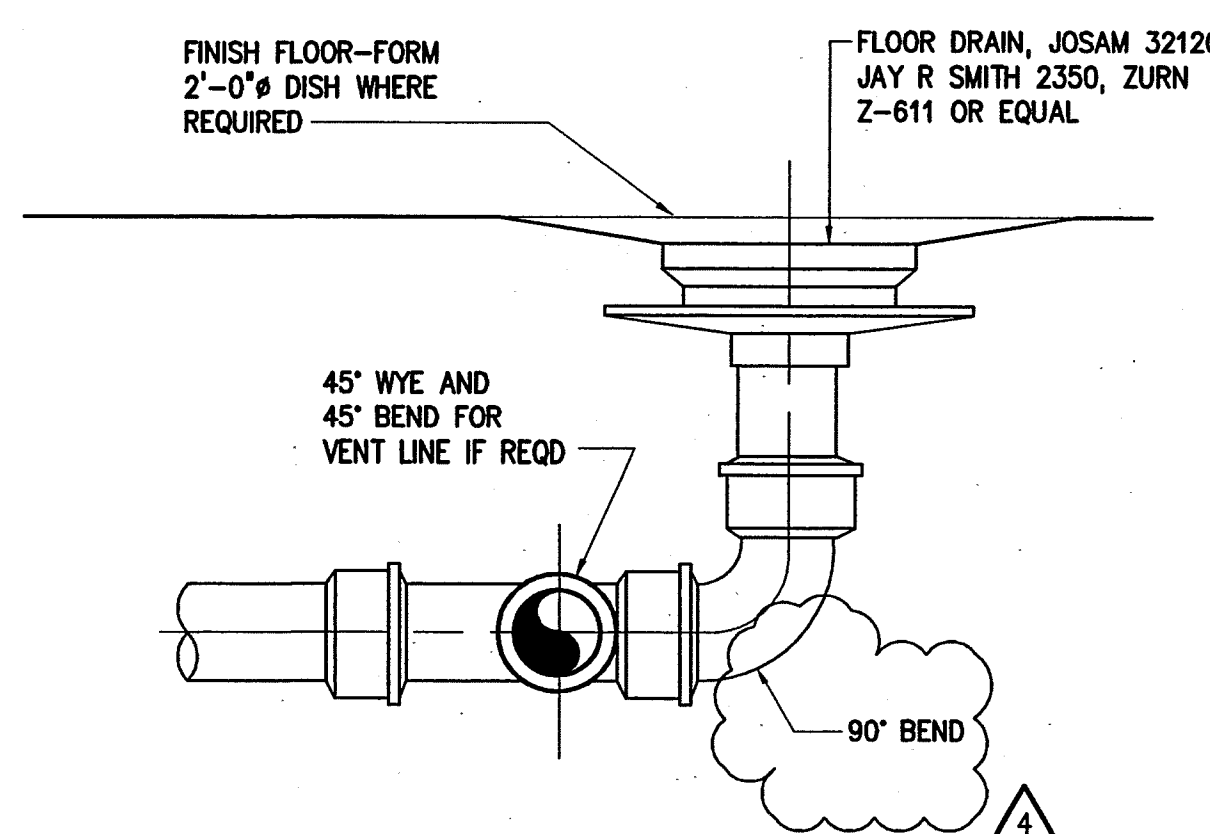
1509404



RESTRAINED MJ SOLID SLEEVE  
1509221



1509203



NOTE: INTERIOR FLOOR DRAIN AND CLEANOUTS TO HAVE NICKEL BRONZE TOPS. EXTERIOR FLOOR DRAINS AND CLEANOUTS TO HAVE LACQUERED CAST IRON TOPS.

FLOOR DRAIN

1542102R

NO.	ISSUED FOR	DATE	BY	APPROVED
5	RECORD DRAWINGS	5/08	JAB	
4	BUILDING PERMIT REVIEW COMMENTS	11/07	JAB	
3	CONSTRUCTION	3/07	JAB	
2	PUBLIC WORKS SUBMITTAL	2/07	JAB	
1	STATE APPROVAL	01/07	JAB	

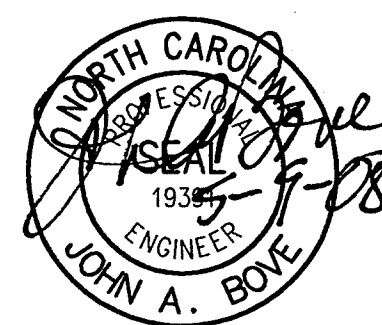
DESIGNED	H&S
DRAWN	H&S
CHECKED	JAB
PROJ. ENGR.	JAB

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY ROBERT S.  
DIFIORE, SEAL NUMBER 9463

THIS DOCUMENT ORIGINALLY  
ISSUED FOR CONSTRUCTION  
AND SEALED BY JOHN A.  
BOVE, SEAL NUMBER 19391

RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED  
TO REFLECT FIELD CHANGES  
REPORTED BY THE CONTRACTOR OR  
ANOTHER PARTY, BUT NOT VERIFIED  
BY THE CERTIFYING ENGINEER



**HAZEN AND SAWYER**  
Environmental Engineers & Scientists  
4011 WestChase Blvd, Raleigh, North Carolina 27607

CITY OF RALEIGH  
DEPARTMENT OF SOLID WASTE SERVICES  
WILDERS GROVE SOLID WASTE  
TRANSFER FACILITY  
820 CORPORATION PARKWAY, RALEIGH, NC

MISCELLANEOUS STANDARD DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE JANUARY 2007
H & S JOB NUMBER 30579	CONTRACT NUMBER 1A
DRAWING NUMBER D5	H&S FLAT FILE NO.





H&amp;S FLAT FILE NO. .